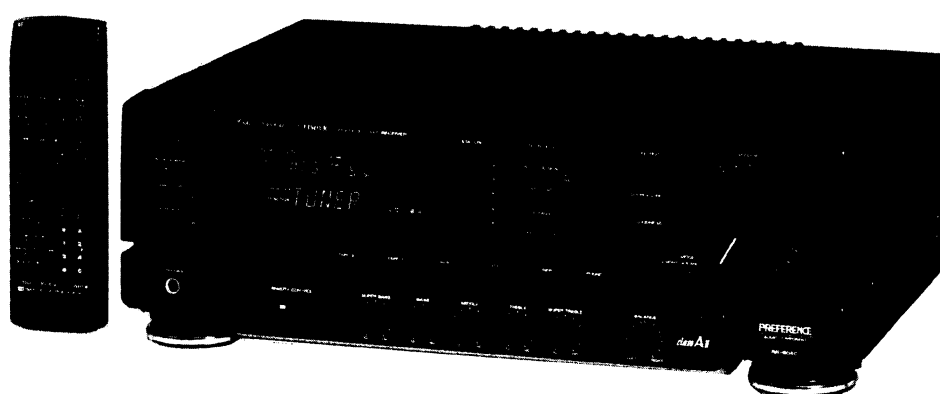


SERVICE MANUAL**FISHER**

AM/FM STEREO RECEIVER
WITH RCA-9050 WIRELESS
REMOTE CONTROL

RS-9040**(EUROPE)****132 351 41****SPECIFICATIONS**

RCA-9050

Remote Control

43-function,
wireless remote control**POWER AMPLIFIER SECTION**Minimum RMS sine wave power per channel within the stated
bandwidth at no more than the stated

distortion and with an 8Ω load 80Watts

Power Bandwidth 40Hz ~ 12.5kHz

Total Harmonic Distortion 0.05%

I.M. Distortion 0.05%

Speaker Damping > 20

PREAMPLIFIER SECTION

Frequency Response

Phono (RIAA) ±1dB

AUX (20Hz ~ 20kHz) ±1dB

Input Sensitivity and Impedance

Phono 2.5mV/50kΩ

Tape Monitor 1,2 150mV/50kΩ

AUX/CD 150mV/50kΩ

Phono Maximum Input Capability 150mV

Graphic Equalizer

63Hz ±10dB

250Hz ±10dB

1kHz ±10dB

4kHz ±10dB

16kHz ±10dB

Loudness Contour (100Hz/10kHz) + 8dB/ + 4dB

Hum and Noise (IHF Short Circuit, A Network)

Phono 70dB

Tape Monitor 1,2 90dB

AUX/CD 90dB

Source Direct (AUX) 95dB

FM SECTION

Usable Sensitivity

Monaural 0.9μV/10.3dBf

46dB Quieting Sensitivity

Monaural 3.8μV/22.8dBf

Stereo 35μV/42.1dBf

Signal-to-Noise Ratio

Monaural 70dB

Stereo 65dB

— Specifications and design are subject to change without notice. —

REFERENCE No. WM-570409

SPECIFICATIONS (Continued)

Capture Ratio	1.5dB
Alternate Channel Selectivity($\pm 400\text{kHz}$)	55dB
Image Response Ratio	114dB
Spurious Response Ratio	87dB
IF Response Ratio	110dB
AM Suppression Ratio	55dB
Total Harmonic Distortion at 50dB Quieting	
Monaural	0.2%
Stereo	0.3%
Total Harmonic Distortion at 65dBf	
Monaural (100Hz/1kHz/6kHz)	0.3/0.3/0.4%
Stereo (100Hz/1kHz/6kHz)	0.4/0.4/0.5%
Stereo Separation	
(100Hz/1kHz/10kHz)	40/40/30dB
Sub-Carrier Rejection (19kHz/38kHz)	30/50dB

Audio Frequency Response	
(20Hz ~ 15kHz)	$\pm 3.0\text{dB}$

AM SECTION

Usable Sensitivity	600 $\mu\text{V/m}$
Selectivity	35dB
Signal-to-Noise Ratio	55dB
Image Response Ratio	38dB
IF Response Ratio	60dB

GENERAL

Power Requirements	AC 220V
(50Hz)	400 Watts
AC Outlet(Switched)	3
Dimensions (WxHxD)	440 x 146 x 340mm
Weight (Approximate)	9.9kg

— Specifications and design are subject to change without notice. —

POWER AMPLIFIER ADJUSTMENT

BEFORE ADJUSTMENT

Unplug the AC power cord and set the front panel controls as follows:

- Power Switch to OFF position.
- Set the SPEAKERS Switch to the OFF position.
- Turn the MASTER VOLUME Control to minimum.
- IDLING CURRENT ADJUSTMENT VR101/VR102 (on the Main P.C.Board) setting to mechanical center position.
- Connect the AC power cord and Power Switch to the ON position.

IDLING CURRENT ADJUSTMENT

This adjustment is very sensitive to changes in ambient temperature. Allow set to operate for 2 minutes before attempting this alignment.

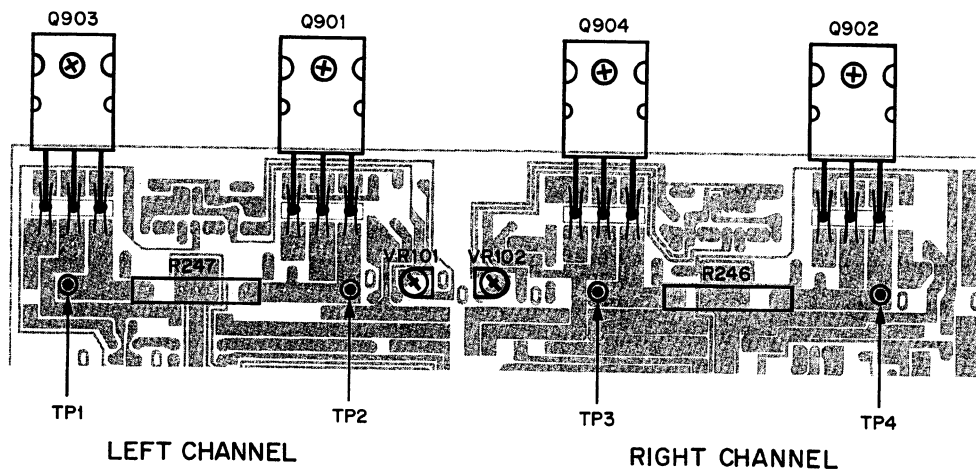
LEFT AMPLIFIER

1. Connect the DC Voltmeter between Pins TP1 and TP2 on the Main P.C.Board.
2. Adjust the VR101 for an indication of $4\text{mV} \pm 1\text{mV}$ on the DC Voltmeter.

RIGHT AMPLIFIER

1. Connect the DC Voltmeter between Pins TP3 and TP4 on the Main P.C.Board.
2. Adjust the VR102 for an indication of $4\text{mV} \pm 1\text{mV}$ on the DC Voltmeter.

ADJUSTMENT POINTS



CAUTION ON RF ADJUSTMENT

This model uses a microprocessor for memory preset control for the various bands. This function has been used to preset frequency points for the different bands to permit adjustment and make it possible to check the function of the microprocessor. To use this supplemental function, press the POWER STANDBY button for approximately 5 seconds so that the frequency points show in the following table before beginning adjustment. The following table shows the initially preset frequencies.

Band	Memory					
	1	2	3	4	5	6
FM-1	87.5MHz	108MHz	88MHz	98MHz	108Hz	90MHz
AM	522kHz	1611kHz	603kHz	1404kHz	999kHz	801kHz

AM TUNER ALIGNMENT

AM ALIGNMENT — Band Selector switch to AM position.
Maintain generator output as low as possible for suitable indication.

Note: Perform this alignment after FM Tuner Alignment.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. AM IF ALIGNMENT	Connect 450kHz Radio IF Genescope output to AM ANT and ground. Adjust output level to 100dB μ V.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP404 and ground lead to chassis.	Adjust AM IFT (T405) for maximum gain and best symmetry. Keep signal low enough for noise on response.
2. AM RF FREQUENCY COVER ALIGNMENT (522kHz)	Do not connect generator.	Set Preset STATION button to "1" position. Set to 522kHz.	Connect DC Voltmeter to Pin B2 (Front End) and ground lead to chassis.	Adjust AM OSC Coil (T403) until DC Voltmeter reads 0.8V ~ 1.3V.
3. (1611kHz)	Same as above.	Change Preset STATION button to "2" position. Set to 1611kHz.	Same as above.	Check DC Voltmeter for Indication 7.0V ~ 8.5V.
Note: Repeat the adjustments in Items 2 and 3. Then, confirm that each voltage becomes 1.5V to 7.5V at receiving frequency of 522kHz to 1611kHz. (See Table 1)				
4. AM RF TRACKING ALIGNMENT (603kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop Antenna (Unit). Generator Setting to 603kHz or 1404kHz. Modulate with 400Hz (30 % modulation).	Set Preset STATION button to "3" position. Set to 603kHz.	Connect AC VTVM and Oscilloscope to Tape REC OUT Terminals.	Adjust AM Antenna Coil (T401) for maximum gain output.
5. (1404kHz)		Change Preset STATION button to "4" position. Set to 1404kHz.	Same as above.	Adjust AM Antenna Trimmer (TC401) for maximum gain output.
Note: Repeat the adjustments in Items 4 and 5. Then, confirm there is no tracking error.				
6. AM SIGNAL METER LEVEL SENSITIVITY ADJUSTMENT	Change generator setting to 999kHz and output level to 60dB μ V/m.	Set Preset STATION button to "5" position. Set to 999kHz.	Front Panel TUNED Indicator Display.	Adjust VR401 until the TUNED Indicator partly light up.

Use a screwdriver with plastic grip for all adjustments.

AM Frequency Cover Range
Tuning Voltage Value at B2 (Front End)
(Table 1)

	522kHz	1611kHz
Minimum	0.8V	7.0V
Typical	1.5V	7.5V
Maximum	1.3V	8.5V

FM Frequency Cover Range
Tuning Voltage Value at B2 (Front End)
(Table 2)

	87.5MHz	108MHz
Minimum	1.4V	7.0V
Typical	1.5V	8.3V
Maximum	1.6V	9.0V

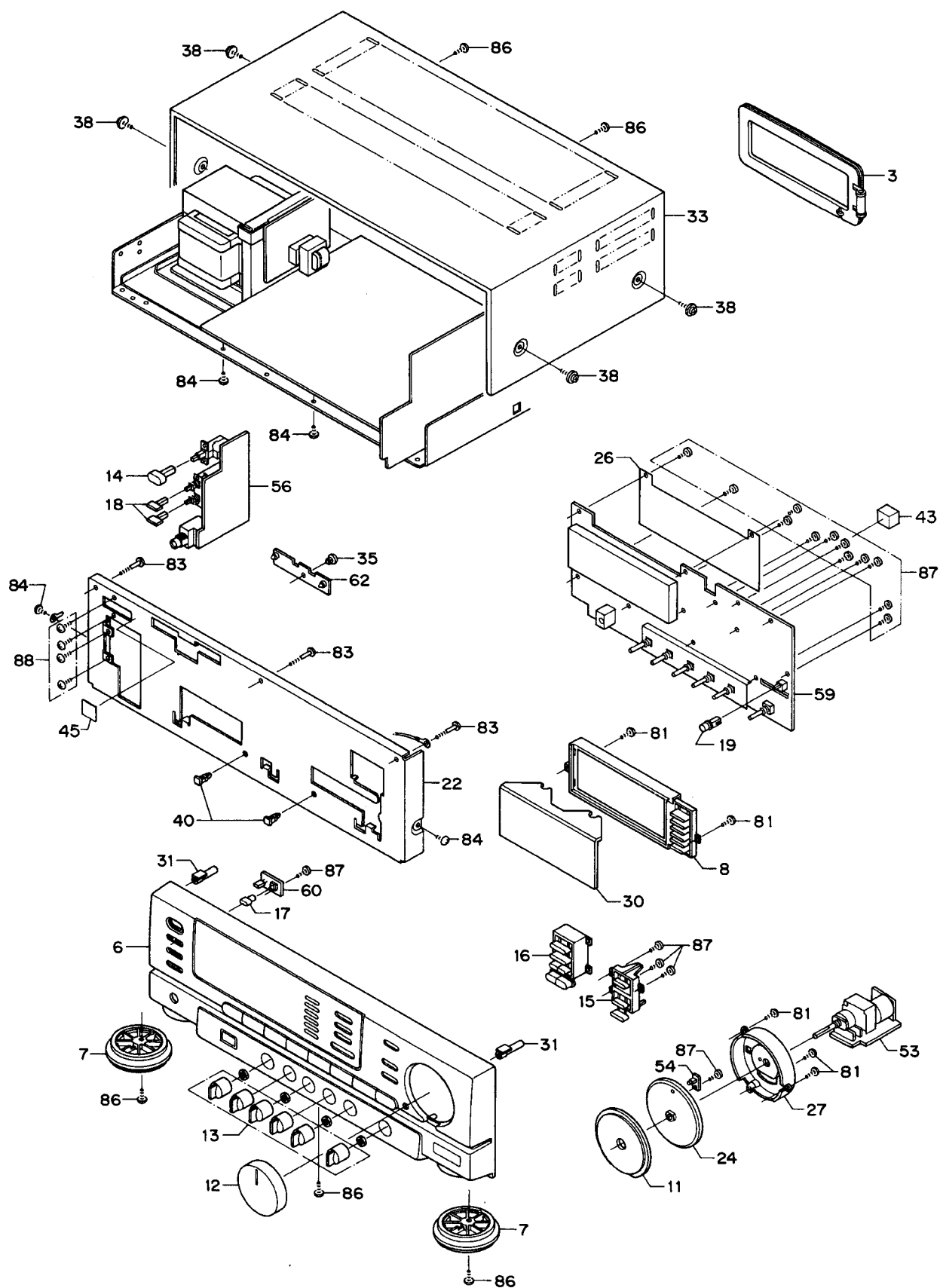
FM TUNER ALIGNMENT

FM ALIGNMENT – Band Selector switch to FM/ST(MUTE) position.

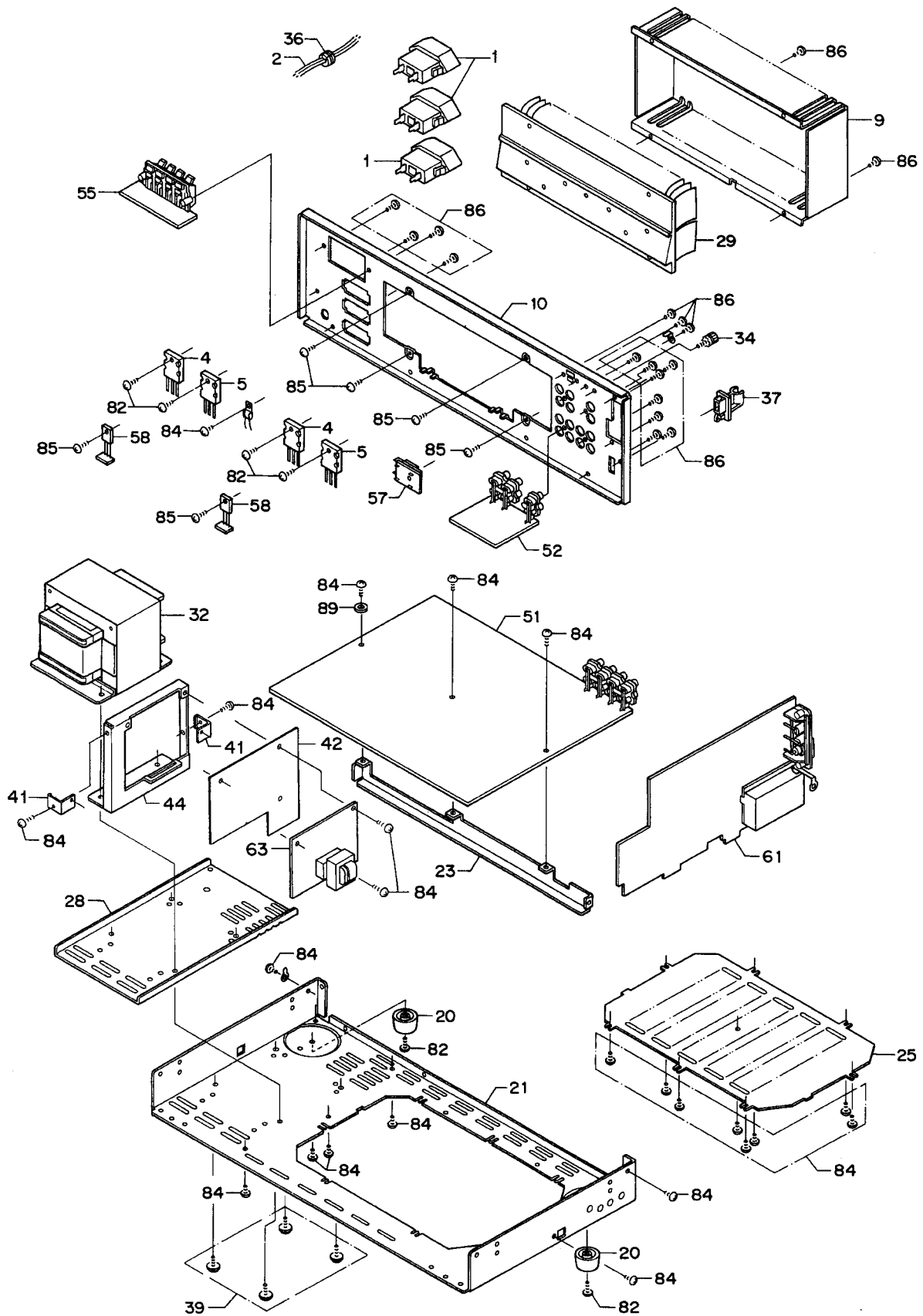
ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. FM IF S-CURVE ALIGNMENT	Connect 10.7MHz Radio IF Genescope output to Pin IF (Front End) and ground lead to chassis. Use 5pF capacitor in series with generator output lead.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP403 and ground lead to chassis.	Adjust FM DET 1st Coil (T406) and FM DET 2nd (T407) so that S-wave from becomes symmetrical.
2. FM RF FREQUENCY COVER ALIGNMENT (87.5MHz)	Do not connect Generator.	Set Preset STATION button to "1" position. Set to 87.5MHz.	Connect DC Voltmeter to Pin B2 (Front End) and ground lead to chassis.	Adjust FM OSC Coil (L5) until DC Voltmeter reads 1.5V \pm 0.05V.
3. (108MHz)	Same as above.	Change Preset STATION button to "2" position. Set to 108MHz.	Same as above.	Check the DC Voltmeter reads 7V ~ 9V.
Note: Repeat the adjustments in Items 2 and 3. Then, confirm that each voltage becomes 1.5V to 8.3V at receiving frequency of 87.5MHz to 108MHz. (See Table 2)				
4. FM RF TRACKING ALIGNMENT (88MHz)	Connect FM RF Signal Generator through FM Dummy Antenna to FM Antenna terminals. Set Generator to 88MHz or 108MHz. Modulate with 1kHz to provide \pm 75kHz deviation. Set Generator output with attenuator as low as possible.	Set Preset STATION button to "3" position. Set to 88MHz.	Connect AC VTVM and Oscilloscope to Tape REC OUT Terminals.	Adjust FM Antenna Coil (L2) and FM RF Coil (L4) for maximum gain output. Do not touch the Coil (L1 and L3)
5. (108MHz)		Change Preset STATION button to "2" position. Set to 108MHz.	Same as above.	Adjust FM RF Trimmer (TC1, TC2) and FM IFT Coil (T1) for maximum gain output
Note: Repeat the adjustments in Items 4 and 5. Then, confirm there is no tracking error.				
6. DETECTOR ADJUSTMENT (MINIMUM T.H.D.)	Connect FM RF signal generator through FM Dummy Antenna to FM Antenna terminals. Set generator to 98MHz \pm 2kHz. Modulate with 1kHz to provide \pm 75kHz deviation. Setting generator with attenuator output level for 60dB μ V.	Set MODE switch to FM MONO position and Preset STATION button to "4" position. Set to 98MHz.	Connect DC Voltmeter to TP402 and ground Lead to chassis.	Adjust FM DET 1st Coil (T406) until DC Voltmeter reads 0V \pm 50mV.
			Connect Harmonic Distortion Analyzer to REC OUT Terminals.	Adjust FM DET 2nd Coil (T407) for minimum gain and best linearity.
Note: Repeat Step 1 (FM DET 1st Coil T406) and 2 (FM DET 2nd Coil T407) until optimum alignment is reached.				
7. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. Set generator output level to 60dB μ V at 98MHz stereo signal (1kHz : 53.3%, Pilot : 9%) from LEFT channel.	Same as above Set MODE switch to FM ST/MUTE position.	Connect AC VTVM and Oscilloscope to RIGHT channel REC OUT Terminal.	Adjust VR403 for minimum output.
	Same as above for RIGHT channel.		Connect AC VTVM and Oscilloscope to LEFT channel REC OUT Terminal.	
8. FM SIGNAL METER LEVEL SENSITIVITY ADJUSTMENT	Set generator to 98MHz. Adjust attenuator output level to 16dB μ V.	Same as above.	Front panel TUNED Indicator Display.	Set MODE Switch to ST(MUTE) Adjust VR402 until the TUNED Indicator partly light up.
Note: Decrease the output level of ATT and confirm that the wave form disappears. Increase the output level of ATT again and confirm that the input level meets the specifications sufficiently when the wave form has appeared.				

Use a screwdriver with plastic grip for all adjustments.

CABINET & CHASSIS EXPLODED VIEW (1)



CABINET & CHASSIS EXPLODED VIEW (2)



CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PACKAGE				44	620 191 5129	Bracket Mount PC	1
	620 000 0024	Bag Polyethylene	1	45	620 124 9606	Spacer	1
	620 204 0479	Outer Carton	1				
	620 204 7997	Pad, Left	1	51	620 203 9718	Assy, PCB, Main	1
	620 204 8000	Pad, Right	1	52	620 203 9725	Assy, PCB, Input	1
	620 059 6596	Patching Sheet	1	53	620 198 8949	Assy, PCB, Motor Volume	1
	620 062 2127	Rubber Band	1	54	620 198 8963	Assy, PCB, Volume Indicator	1
	620 148 5639	Poly Cover 100 x 190	1	55	620 203 9732	Assy, PCB, Speaker Out	1
	620 148 8012	Sheet Polyethylene	1	56	620 203 9756	Assy, PCB, Power Switch	1
	620 152 7452	Serial No. Sheet	2	57	620 198 8994	Assy, PCB, R/C	1
				58	620 198 9007	Assy, PCB, Bias	2
ACCESSORIES				59	620 203 9763	Assy, PCB, Micom	1
	620 204 4279	Assy, Poly Cover	1	60	620 198 9045	Assy, PCB, Power Indicator	1
	620 204 4637	Remocon, RCA-9050	1	61	620 203 9770	Assy, PCB, Tuner	1
	620 204 4187	Instruction Manual	1	62	620 198 9069	Assy, PCB, Lamp	1
	620 038 1673	FM Antenna Assy	1	63	620 198 9076	Assy, PCB, Power Supply	1
	620 057 8783	Bag Fan	1				
	620 062 0543	Serial No. Sheet	1	81	411 020 5706	SCR S-TPG BRZ 2.6X8	5
	620 112 8123	Holder Antenna	1	82	411 020 5904	SCR S-TPG BRZ 3X10	6
	620 152 2624	Certificate Card	1	83	411 020 7304	SCR S-TPG BRZ 3X30	3
				84	411 020 7700	SCR S-TPG BRZ 3X6	27
CABINET				85	411 020 8004	SCR S-TPG BRZ 3X8	6
	620 022 3454	Terminal Lug	2	86	411 099 9803	SCR S-TPG BRZ 3X8	22
	620 050 2887	Cramp Wire	1	87	411 021 1202	SCR S-TPG BIN 2X8	18
	620 125 8424	Wire Band	14	88	411 003 8908	SCR PAN + SW 3X6	4
	620 152 7452	Serial No. Sheet	1	89	411 008 1300	WASHER SPR 3	1
1	△ 620 017 1212	AC Socket	3	NOTES:			
2	△ 620 023 7550	Power Cord	1	1.	Parts order must contain Model Number, Part Number and Description.		
3	620 028 2741	AM Loop Antenna	1	2.	Ordering quantity of screws and resistors must be multiple of 10 pcs.		
or	620 028 2734	AM Loop Antenna	1	<div>PRODUCT SAFETY NOTICE Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol △ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with △, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.</div>			
or	620 028 2543	Loop Antenna	1				
4	405 003 3902	TR 2SA1301-O [Q903]	1				
or	405 031 2106	TR 2SA1301-R [Q903]	1				
4	405 003 3902	TR 2SA1301-O [Q904]	1				
or	405 031 2106	TR 2SA1301-R [Q904]	1				
5	405 017 7705	TR 2SC3280-O [Q901]	1				
or	405 033 3309	TR 2SC3280-R [Q901]	1				
5	405 017 7705	TR 2SC3280-O [Q902]	1				
or	405 033 3309	TR 2SC3280-R [Q902]	1				
6	620 204 0455	Assy, Cabinet	1				
7	620 198 6969	Assy, Foot	2				
8	620 198 6228	Assy, Mount-M, Filter	1				
9	620 204 0431	Cover, Heat Sink	1				
10	620 204 0448	Panel, Rear	1				
11	620 198 0813	Dial Scale	1				
12	620 198 0769	Knob, Rotary, Volume	1				
13	620 198 0776	Knob, Rotary, Equalizer	6				
14	620 198 6938	Knob, Power	1				
15	620 198 0721	Button, REC	1				
16	620 198 0738	Button, Tuner	1				
17	620 198 0745	Button, Stand BY	1				
18	620 198 0752	Button, Push (Speaker)	2				
19	620 199 3189	Button, Push (Mode)	1				
20	620 198 6983	Foot	2				
21	620 198 0929	Chassis	1				
22	620 198 0943	Chassis, Front	1				
23	620 198 0967	Bracket-E, PCB	1				
24	620 198 0837	Mount-E, Indicator	1				
25	620 198 0936	Plate, Bottom	1				
26	620 202 0334	Plate, Sever	1				
27	620 198 0844	Support, Shaft	1				
28	620 198 0974	Reinforcement	1				
29	620 192 3018	Heat Sink	1				
30	620 204 5917	Filter, Clear	1				
31	620 198 0912	Spacer, Cabinet	3				
32	△ 620 204 0790	Power Trans, SEV, 160VA	1				
33	620 045 4711	Cover	1				
34	620 051 2152	Screw Ground	1				
35	620 052 1659	Rivet	1				
or	620 191 2746	Rivet 3.5	1				
36	620 053 2136	Bushing (Power Cord)	1				
or	620 053 2129	Bushing (Power Cord)	1				
37	620 122 2210	Holder Antenna	1				
38	620 123 0284	SCR TPG BIN + M4.0X8	4				
39	620 123 0833	SCR Bind TAP-B + M4X10	4				
40	620 191 7987	Post Support P.C.B.	2				
41	620 205 6937	Bracket-E, PCB	2				
42	620 204 7805	Plate, Sever	1				
43	620 052 6203	Cushion	1				

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB MAIN							
51	620 203 9718	Assy,PCB Main	1	Q117	405 016 8901	TR 2SC3066-F	1
	620 017 2738	Fuse Clip	14	or	405 016 9007	TR 2SC3066-G	1
	620 021 6814	Pin 1P	4	Q118	405 016 8901	TR 2SC3066-F	1
	620 022 2587	EC Terminal 1P	1	or	405 016 9007	TR 2SC3066-G	1
	620 022 3492	Terminal Lug	1	Q119	405 002 9103	TR 2SA1209-S	1
△	423 005 0507	FUSE 250V T1A	4	or	405 002 9202	TR 2SA1209-T	1
△	423 006 4702	FUSE 250V T2.5A	1	Q120	405 002 9103	TR 2SA1209-S	1
△	423 007 4404	FUSE 250V T5A	2	or	405 002 9202	TR 2SA1209-T	1
	411 020 8004	SCR S-TPG BRZ 3X8	5	Q123	405 016 3906	TR 2SC2911-S	1
	620 201 6153	Jack,RCA PIN,4P,WH/RE	2	or	405 016 4002	TR 2SC2911-T	1
△	620 202 2130	Relay,Power,1P-1T,TV-5	1	Q124	405 016 3906	TR 2SC2911-S	1
	620 196 1645	Relay,T-Cross DC24V	1	or	405 016 4002	TR 2SC2911-T	1
	620 031 4763	Wire Wrap Terminal	10	Q125	405 017 2601	TR 2SC3117-S	1
	620 053 9241	Plate Heat Sink	5	or	405 017 2700	TR 2SC3117-T	1
	620 055 1045	Label Fuse	1	Q126	405 017 2601	TR 2SC3117-S	1
CN102	620 189 5551	Socket Jumper 7P	1	or	405 017 2700	TR 2SC3117-T	1
CN103	620 018 1655	Socket Jumper 2P	1	Q127	405 003 1601	TR 2SA1249-S	1
CN401	620 018 1679	Socket Jumper 4P	1	or	405 003 1700	TR 2SA1249-T	1
CN402	620 189 5544	Socket Jumper 6P	1	Q128	405 003 1601	TR 2SA1249-S	1
CN403	620 018 1662	Socket Jumper 3P	1	or	405 003 1700	TR 2SA1249-T	1
CN501	620 018 1686	Socket Jumper 8P	1	Q129	405 004 4502	TR 2SA608-F-NP	1
CN502	620 189 5551	Socket Jumper 7P	1	or	405 004 5004	TR 2SA608-G-NP	1
CN503	620 017 5029	Socket Jumper 9P	1	Q130	405 019 2708	TR 2SC536-F-NP-AA	1
CN504	620 017 5029	Socket Jumper 9P	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
CN505	620 189 5551	Socket Jumper 7P	1	Q131	405 019 2708	TR 2SC536-F-NP-AA	1
CN506	620 189 5551	Socket Jumper 7P	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
CN507	620 018 1662	Socket Jumper 3P	1	Q132	405 004 4502	TR 2SA608-F-NP-AA	1
CN508	620 018 1662	Socket Jumper 3P	1	or	405 004 5004	TR 2SA608-G-NP	1
L101	620 027 1240	AF Coil	1	Q133	405 019 2708	TR 2SC536-F-NP-AA	1
L102	620 027 1240	AF Coil	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
PC101	620 199 6166	Wire,Jumper,9P,L = 160	1	Q134	405 019 2708	TR 2SC536-F-NP-AA	1
PC105	620 024 1236	Wire 2 Parallel	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
PC106	620 199 6173	Wire,Parallel,4P,L = 400	1	Q136	405 036 3108	TR 2SA1503	1
PC108	620 200 8028	Wire,Jumper,3P,L = 120	1	Q137	405 007 5100	TR 2SB560-E-MP	1
PC301	620 199 6159	Wire,Jumper,6P,L = 280	1	or	405 007 5308	TR 2SB560-F-MP	1
R246	620 004 3892	Cement 2X0.33	1	Q138	405 023 8307	TR 2SD438-E-MP	1
R247	620 004 3892	Cement 2X0.33	1	or	405 023 8505	TR 2SD438-F-MP	1
VR101	620 006 1346	Potentiometer 220-B	1	Q139	405 035 7107	TR 2SD1913-R	1
VR102	620 006 1346	Potentiometer 220-B	1	or	405 035 7206	TR 2SD1913-S	1
IC102	409 109 5105	IC LC7821	1	or	405 022 1200	TR 2SD1266-Q	1
IC103	409 161 3101	IC TC9214P	1	or	405 022 1101	TR 2SD1266-P	1
IC104	409 161 3101	IC TC9214P	1	or	405 033 5709	TR 2SD1406-O	1
IC105	409 018 5104	IC LA6458SS	1	or	405 022 5000	TR 2SD1406-Y	1
IC106	409 018 5203	IC LA6462D	1	Q140	405 023 8307	TR 2SD438-E-MP	1
IC107	409 079 9509	IC LA2500	1	or	405 023 8505	TR 2SD438-F-MP	1
IC108	409 079 9509	IC LA2500	1	Q141	405 019 2708	TR 2SC536-F-NP-AA	1
IC109	409 018 5104	IC LA6458SS	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
IC110	409 114 4803	IC LB1641	1	Q142	405 019 2708	TR 2SC536-F-NP-AA	1
Q101	405 018 0101	TR 2SC3331-T	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
or	405 018 0200	TR 2SC3331-U	1	Q143	405 019 2708	TR 2SC536-F-NP-AA	1
Q102	405 018 0101	TR 2SC3331-T	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
or	405 018 0200	TR 2SC3331-U	1	Q144	405 019 2708	TR 2SC536-F-NP-AA	1
Q103	405 018 0101	TR 2SC3331-T	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
or	405 018 0200	TR 2SC3331-U	1	Q145	405 019 3804	TR 2SC536-G-NP-AA	1
Q104	405 018 0101	TR 2SC3331-T	1	or	405 019 4603	TR 2SC536-H-NP	1
or	405 018 0200	TR 2SC3331-U	1	D101	407 125 8209	DIODE HSS271	1
Q105	405 018 0101	TR 2SC3331-T	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 018 0200	TR 2SC3331-U	1	or	407 008 0405	DIODE GMB01-BT	1
Q106	405 018 0101	TR 2SC3331-T	1	D102	407 125 8209	DIODE HSS271	1
or	405 018 0200	TR 2SC3331-U	1	or	407 012 4208	DIODE 1SS131-T-77	1
Q107	405 019 2708	TR 2SC536-F-NP-AA	1	or	407 008 0405	DIODE GMB01-BT	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	D103	407 125 8209	DIODE HSS271	1
Q108	405 019 2708	TR 2SC536-F-NP-AA	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	or	407 008 0405	DIODE GMB01-BT	1
Q109	405 019 2708	TR 2SC536-F-NP-AA	1	D104	407 125 8209	DIODE HSS271	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	or	407 012 4208	DIODE 1SS131-T-77	1
Q110	405 019 2708	TR 2SC536-F-NP-AA	1	or	407 008 0405	DIODE GMB01-BT	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	D105	407 125 8209	DIODE HSS271	1
Q111	405 019 2708	TR 2SC536-F-NP-AA	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	or	407 008 0405	DIODE GMB01-BT	1
Q112	405 019 2708	TR 2SC536-F-NP-AA	1	D106	407 005 3805	DIODE DS442-BT	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	D107	407 125 8209	DIODE HSS271	1
Q113	405 019 2708	TR 2SC536-F-NP-AA	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	or	407 008 0405	DIODE GMB01-BT	1
Q114	405 039 5802	TR 2SC3792	1	D108	407 005 3805	DIODE DS442-BT	1
Q115	405 039 5802	TR 2SC3792	1	D109	407 125 8209	DIODE HSS271	1
Q116	405 019 2708	TR 2SC536-F-NP-AA	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	or	407 008 0405	DIODE GMB01-BT	1
				D110	407 005 3805	DIODE DS442-BT	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
D111	407 125 8209	DIODE HSS271	1	C136	403 009 8105	CERAMIC 100P K 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C137	403 047 1502	ELECT 4.7U M 25V	1
or	407 008 0405	DIODE GMB01-BT	1	C138	403 047 1502	ELECT 4.7U M 25V	1
D112	407 005 3805	DIODE DS442-BT	1	C139	403 018 8509	CERAMIC 220P K 50V	1
D115	407 049 9504	ZENER DIODE GZA20Y-BT	1	C140	403 018 8509	CERAMIC 220P K 50V	1
or	407 049 9603	ZENER DIODE GZA20Z	1	C141	403 061 9805	POLYESTER 0.047U J 50V	1
or	407 049 9405	ZENER DIODE GZA20X	1	C142	403 061 9805	POLYESTER 0.047U J 50V	1
D116	407 049 7807	ZENER DIODE GZA18Y-BT	1	C143	403 047 1502	ELECT 4.7U M 25V	1
or	407 049 7708	ZENER DIODE GZA18X-BT	1	C144	403 047 1502	ELECT 4.7U M 25V	1
or	407 049 7906	ZENER DIODE GZA18Z	1	C145	403 018 8509	CERAMIC 220P K 50V	1
D117	407 049 7807	ZENER DIODE GZA18Y-BT	1	C146	403 018 8509	CERAMIC 220P K 50V	1
or	407 049 7708	ZENER DIODE GZA18X-BT	1	C147	403 009 8105	CERAMIC 100P K 50V	1
or	407 049 7906	ZENER DIODE GZA18Z	1	C148	403 009 8105	CERAMIC 100P K 50V	1
D118	407 049 7005	ZENER DIODE GZA15Y-BT	1	C149	403 008 5204	CERAMIC 10P D 50V	1
or	407 049 7104	ZENER DIODE GZA15Z-BT	1	C150	403 008 5204	CERAMIC 10P D 50V	1
or	407 049 6909	ZENER DIODE GZA15X	1	C151	403 047 1502	ELECT 4.7U M 25V	1
D119	407 049 6602	ZENER DIODE GZA13Y-BT	1	C152	403 047 1502	ELECT 4.7U M 25V	1
or	407 049 6701	ZENER DIODE GZA13Z-BT	1	C153	403 050 1308	ELECT 2.2U M 50V	1
or	407 049 6503	ZENER DIODE GZA13X-BT	1	C154	403 050 1308	ELECT 2.2U M 50V	1
D120	407 050 5502	ZENER DIODE GZA5.6Y-BT	1	C155	403 048 7701	ELECT 0.47U M 50V	1
D121	407 050 1306	ZENER DIODE GZA3.6Y	1	C156	403 048 7701	ELECT 0.47U M 50V	1
or	407 050 1207	ZENER DIODE GZA3.6X	1	C157	403 063 7205	POLYESTER 0.082U J 50V	1
or	407 050 1405	ZENER DIODE GZA3.6Z	1	C158	403 063 7205	POLYESTER 0.082U J 50V	1
D123	407 125 8209	DIODE HSS271	1	C159	403 003 2802	CERAMIC 0.022U K 25V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C160	403 003 2802	CERAMIC 0.022U K 25V	1
or	407 008 0405	DIODE GMB01-BT	1	C161	403 073 8407	CERAMIC 4700P K 50V	1
D124	407 125 8209	DIODE HSS271	1	C162	403 073 8407	CERAMIC 4700P K 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C163	403 003 0600	CERAMIC 0.018U K 25V	1
or	407 008 0405	DIODE GMB01-BT	1	C164	403 003 0600	CERAMIC 0.018U K 25V	1
D125	407 004 9600	DIODE DSF10TC-BT	1	C165	403 075 5107	CERAMIC 8200P K 50V	1
D126	407 004 9600	DIODE DSF10TC-BT	1	C166	403 075 5107	CERAMIC 8200P K 50V	1
D127	407 004 9600	DIODE DSF10TC-BT	1	C167	403 073 8407	CERAMIC 4700P K 50V	1
D128	407 004 9600	DIODE DSF10TC-BT	1	C168	403 073 8407	CERAMIC 4700P K 50V	1
D129	407 120 4909	DIODE DS5403	1	C169	403 070 8608	CERAMIC 1500P K 50V	1
or	407 088 3105	DIODE DSC30TC-KD2	1	C170	403 070 8608	CERAMIC 1500P K 50V	1
D130	407 120 4909	DIODE DS5403	1	C171	403 074 9007	CERAMIC 680P K 50V	1
or	407 088 3105	DIODE DSC30TC-KD2	1	C172	403 074 9007	CERAMIC 680P K 50V	1
D131	407 120 4909	DIODE DS5403	1	C173	403 047 4206	ELECT 47U M 25V	1
or	407 088 3105	DIODE DSC30TC-KD2	1	C174	403 047 4206	ELECT 47U M 25V	1
D132	407 120 4909	DIODE DS5403	1	C175	403 044 0201	ELECT 47U M 16V	1
or	407 088 3105	DIODE DSC30TC-KD2	1	C176	403 044 0201	ELECT 47U M 16V	1
D133	407 004 9600	DIODE DSF10TC-BT	1	C177	403 044 0201	ELECT 47U M 16V	1
D134	407 004 9600	DIODE DSF10TC-BT	1	C178	403 044 0201	ELECT 47U M 16V	1
D136	407 050 6301	ZENER DIODE GZA6.2Z-BT	1	C179	403 048 7701	ELECT 0.47U M 50V	1
D137	407 050 6202	ZENER DIODE GZA6.2Y-BT	1	C180	403 047 1502	ELECT 4.7U M 25V	1
or	407 050 6301	ZENER DIODE GZA6.2Z-BT	1	C181	403 047 1502	ELECT 4.7U M 25V	1
or	407 050 6103	ZENER DIODE GZA6.2X-BT	1	C182	403 018 8509	CERAMIC 220P K 50V	1
D138	407 050 2204	ZENER DIODE GZA30Y-BT	1	C183	403 018 8509	CERAMIC 220P K 50V	1
or	407 050 2303	ZENER DIODE GZA30Z-BT	1	C184	403 038 2303	ELECT 100U M 6.3V	1
or	407 050 2105	ZENER DIODE GZA30X-BT	1	C185	403 038 2303	ELECT 100U M 6.3V	1
D139	407 005 3805	DIODE DS442-BT	1	C186	403 009 8105	CERAMIC 100P K 50V	1
D140	407 005 3805	DIODE DS442-BT	1	C187	403 009 8105	CERAMIC 100P K 50V	1
D141	407 005 3805	DIODE DS442-BT	1	C188	403 009 8105	CERAMIC 100P K 50V	1
D142	407 050 3706	ZENER DIODE GZA4.7Y-BT	1	C189	403 009 8105	CERAMIC 100P K 50V	1
or	407 050 3805	ZENER DIODE GZA4.7Z	1	C190	403 047 1502	ELECT 4.7U M 25V	1
or	407 050 3607	ZENER DIODE GZA4.7X-BT	1	C191	403 047 1502	ELECT 4.7U M 25V	1
D143	407 008 0405	DIODE GMB01-BT	1	C192	403 074 2701	CERAMIC 0.047U Z 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C193	403 074 2701	CERAMIC 0.047U Z 50V	1
D143	407 125 8209	DIODE HSS271	1	C194	403 047 4206	ELECT 47U M 25V	1
D144	407 125 8209	DIODE HSS271	1	C195	403 047 4206	ELECT 47U M 25V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C196	403 047 1502	ELECT 4.7U M 25V	1
or	407 008 0405	DIODE GMB01-BT	1	C197	403 047 1502	ELECT 4.7U M 25V	1
D300	407 050 1306	ZENER DIODE GZA3.6Y	1	C198	403 018 8509	CERAMIC 220P K 50V	1
or	407 050 1207	ZENER DIODE GZA3.6X	1	C199	403 018 8509	CERAMIC 220P K 50V	1
or	407 050 1405	ZENER DIODE GZA3.6Z	1	C200	403 038 9302	ELECT 33U M 6.3V	1
TH101	407 109 6702	THERMISTOR 300D-5	1	C201	403 038 9302	ELECT 33U M 6.3V	1
TH102	407 109 6702	THERMISTOR 300D-5	1	C202	403 018 8509	CERAMIC 220P K 50V	1
C124	403 018 8509	CERAMIC 220P K 50V	1	C203	403 018 8509	CERAMIC 220P K 50V	1
C125	403 018 8509	CERAMIC 220P K 50V	1	C204	403 018 8509	CERAMIC 220P K 50V	1
C126	403 018 8509	CERAMIC 220P K 50V	1	C205	403 018 8509	CERAMIC 220P K 50V	1
C127	403 018 8509	CERAMIC 220P K 50V	1	C206	403 035 2207	CERAMIC 15P K 500V	1
C128	403 018 8509	CERAMIC 220P K 50V	1	C207	403 035 2207	CERAMIC 15P K 500V	1
C129	403 018 8509	CERAMIC 220P K 50V	1	C212	403 049 1708	ELECT 1U M 50V	1
C130	403 018 8509	CERAMIC 220P K 50V	1	C213	403 049 1708	ELECT 1U M 50V	1
C131	403 018 8509	CERAMIC 220P K 50V	1	C214	403 075 6906	CERAMIC 100P K 500V	1
C132	403 049 1708	ELECT 1U M 50V	1	C215	403 075 6906	CERAMIC 100P K 500V	1
C133	403 047 1502	ELECT 4.7U M 25V	1	C216	403 075 6906	CERAMIC 100P K 500V	1
C134	403 047 1502	ELECT 4.7U M 25V	1	C217	403 075 6906	CERAMIC 100P K 500V	1
C135	403 009 8105	CERAMIC 100P K 50V	1	C218	403 049 1708	ELECT 1U M 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
C219	403 049 1708	ELECT 1U M 50V	1	R166	401 025 8208	CARBON 22K JA 1/6W	1
C220	403 049 1708	ELECT 1U M 50V	1	R167	401 025 8208	CARBON 22K JA 1/6W	1
C221	403 049 1708	ELECT 1U M 50V	1	R168	401 026 6609	CARBON 390 JA 1/6W	1
C224	403 074 2701	CERAMIC 0.047U Z 50V	1	R169	401 026 6609	CARBON 390 JA 1/6W	1
C225	403 074 2701	CERAMIC 0.047U Z 50V	1	R170	401 026 6609	CARBON 390 JA 1/6W	1
C226	403 038 2303	ELECT 100U M 6.3V	1	R171	401 026 6609	CARBON 390 JA 1/6W	1
C229	403 044 8207	ELECT 10U M 25V	1	R172	401 026 6609	CARBON 390 JA 1/6W	1
C230	403 136 1604	ELECT 47U M 100V	1	R173	401 026 6609	CARBON 390 JA 1/6W	1
C231	403 136 1604	ELECT 47U M 100V	1	R174	401 026 6609	CARBON 390 JA 1/6W	1
C232	403 136 1604	ELECT 47U M 100V	1	R175	401 026 6609	CARBON 390 JA 1/6W	1
C233	403 136 1604	ELECT 47U M 100V	1	R176	401 026 6609	CARBON 390 JA 1/6W	1
C234	404 043 0001	ELECT 6800U M 63V	1	R177	401 026 6609	CARBON 390 JA 1/6W	1
C235	404 043 0001	ELECT 6800U M 63V	1	R178	401 027 8602	CARBON 8.2K JA 1/6W	1
C236	403 052 9609	ELECT 1000U M 35V	1	R179	401 027 8602	CARBON 8.2K JA 1/6W	1
C237	403 052 9609	ELECT 1000U M 35V	1	R180	401 027 8602	CARBON 8.2K JA 1/6W	1
C238	403 053 6607	ELECT 33U M 35V	1	R181	401 027 8602	CARBON 8.2K JA 1/6W	1
C239	403 053 6607	ELECT 33U M 35V	1	R182	401 027 8602	CARBON 8.2K JA 1/6W	1
C240	403 045 7100	ELECT 22U M 25V	1	R183	401 027 8602	CARBON 8.2K JA 1/6W	1
C241	403 047 1502	ELECT 4.7U M 25V	1	R184	401 027 8602	CARBON 8.2K JA 1/6W	1
C242	403 045 9104	ELECT 220U M 25V	1	R185	401 027 8602	CARBON 8.2K JA 1/6W	1
C243	403 044 0201	ELECT 47U M 16V	1	R186	401 027 8602	CARBON 8.2K JA 1/6W	1
C244	403 053 6607	ELECT 33U M 35V	1	R187	401 027 8602	CARBON 8.2K JA 1/6W	1
C245	403 047 1502	ELECT 4.7U M 25V	1	R188	401 024 9305	CARBON 1.2K JA 1/6W	1
C246	403 042 3600	ELECT 100U M 16V	1	R189	401 024 9305	CARBON 1.2K JA 1/6W	1
C247	403 052 8008	ELECT 100U M 35V	1	R190	401 024 9305	CARBON 1.2K JA 1/6W	1
C248	403 047 1502	ELECT 4.7U M 25V	1	R191	401 024 9305	CARBON 1.2K JA 1/6W	1
C249	403 056 8608	POLYESTER 1000P K 50V	1	R192	401 025 1605	CARBON 1.5K JA 1/6W	1
C250	403 061 8709	POLYESTER 4700P K 50V	1	R193	401 025 1605	CARBON 1.5K JA 1/6W	1
C251	403 049 1708	ELECT 1U M 50V	1	R194	401 025 1605	CARBON 1.5K JA 1/6W	1
C252	403 049 1708	ELECT 1U M 50V	1	R195	401 025 1605	CARBON 1.5K JA 1/6W	1
C254	403 042 0302	ELECT 10U M 16V	1	R196	401 025 1605	CARBON 1.5K JA 1/6W	1
C255	403 047 1502	ELECT 4.7U M 25V	1	R197	401 025 1605	CARBON 1.5K JA 1/6W	1
C256	403 041 0303	ELECT 330U M 10V	1	R198	401 012 7009	CARBON 10K JA 1/4W	1
C257	403 074 2701	CERAMIC 0.047U Z 50V	1	R199	401 012 7009	CARBON 10K JA 1/4W	1
C258	403 040 4708	ELECT 220U M 10V	1	R200	401 016 2604	CARBON 220 JA 1/4W	1
C259	403 052 8107	ELECT 100U M 35V	1	R201	401 016 2604	CARBON 220 JA 1/4W	1
C261	404 012 7000	CERAMIC 0.01U P 500V	1	R202	401 024 7707	CARBON 100K JA 1/6W	1
C262	404 012 7000	CERAMIC 0.01U P 500V	1	R203	401 025 8208	CARBON 22K JA 1/6W	1
C265	403 015 1602	CERAMIC 2P C 50V	1	R204	401 024 7004	CARBON 1K JA 1/6W	1
C266	403 015 1602	CERAMIC 2P C 50V	1	R205	401 024 7004	CARBON 1K JA 1/6W	1
C267	403 035 2207	CERAMIC 15P K 500V	1	R206	401 025 8703	CARBON 220K JA 1/6W	1
C268	403 035 2207	CERAMIC 15P K 500V	1	R207	401 025 8703	CARBON 220K JA 1/6W	1
R125	401 024 7004	CARBON 1K JA 1/6W	1	R208	401 025 4200	CARBON 1.8K JA 1/6W	1
R126	401 024 7004	CARBON 1K JA 1/6W	1	R209	401 025 4200	CARBON 1.8K JA 1/6W	1
R127	401 024 7004	CARBON 1K JA 1/6W	1	R210	401 025 4606	CARBON 18K JA 1/6W	1
R128	401 024 7004	CARBON 1K JA 1/6W	1	R211	401 025 4606	CARBON 18K JA 1/6W	1
R129	401 024 7004	CARBON 1K JA 1/6W	1	R212	401 026 4308	CARBON 3.3K JA 1/6W	1
R130	401 024 7004	CARBON 1K JA 1/6W	1	R213	401 018 3807	CARBON 3.3K JA 1/4W	1
R131	401 024 7004	CARBON 1K JA 1/6W	1	R214	401 019 1000	CARBON 390 JA 1/4W	1
R132	401 024 7004	CARBON 1K JA 1/6W	1	R215	401 019 1000	CARBON 390 JA 1/4W	1
R133	401 024 7400	CARBON 10K JA 1/6W	1	R216	401 019 1901	CARBON 3.9K JA 1/4W	1
R134	401 024 7707	CARBON 100K JA 1/6W	1	R217	401 026 7002	CARBON 3.9K JA 1/6W	1
R135	401 024 7707	CARBON 100K JA 1/6W	1	R218	401 027 5908	CARBON 68K JA 1/6W	1
R136	401 024 7707	CARBON 100K JA 1/6W	1	R219	401 027 5908	CARBON 68K JA 1/6W	1
R137	401 024 7707	CARBON 100K JA 1/6W	1	R220	401 026 5800	CARBON 3.6K JA 1/6W	1
R138	401 020 2003	CARBON 4.7K JA 1/4W	1	R221	401 026 5800	CARBON 3.6K JA 1/6W	1
R139	401 026 9907	CARBON 4.7K JA 1/6W	1	R222	401 025 7805	CARBON 2.2K JA 1/6W	1
R140	401 020 2003	CARBON 4.7K JA 1/4W	1	R223	401 025 7805	CARBON 2.2K JA 1/6W	1
R141	401 020 2003	CARBON 4.7K JA 1/4W	1	R224	401 025 7805	CARBON 2.2K JA 1/6W	1
R142	401 025 8703	CARBON 220K JA 1/6W	1	R225	401 025 7805	CARBON 2.2K JA 1/6W	1
R143	401 025 8703	CARBON 220K JA 1/6W	1	R226	401 014 5201	CARBON 15K JA 1/4W	1
R144	401 027 2600	CARBON 5.6K JA 1/6W	1	R227	401 025 1902	CARBON 15K JA 1/6W	1
R145	401 027 2600	CARBON 5.6K JA 1/6W	1	R228	402 037 6909	FUSIBLE RES 82 J- 1/4W	1
R146	401 025 8703	CARBON 220K JA 1/6W	1	or	402 015 9700	FUSIBLE RES 82 J- 1/4W	1
R147	401 025 8703	CARBON 220K JA 1/6W	1	R229	402 037 6909	FUSIBLE RES 82 J- 1/4W	1
R148	401 026 9907	CARBON 4.7K JA 1/6W	1	or	402 015 9700	FUSIBLE RES 82 J- 1/4W	1
R149	401 026 9907	CARBON 4.7K JA 1/6W	1	R234	402 037 6909	FUSIBLE RES 82 J- 1/4W	1
R150	401 026 9907	CARBON 4.7K JA 1/6W	1	or	402 015 9700	FUSIBLE RES 82 J- 1/4W	1
R151	401 026 9907	CARBON 4.7K JA 1/6W	1	R235	402 037 6909	FUSIBLE RES 82 J- 1/4W	1
R156	401 025 8703	CARBON 220K JA 1/6W	1	or	402 015 9700	FUSIBLE RES 82 J- 1/4W	1
R157	401 025 8703	CARBON 220K JA 1/6W	1	R236	401 019 9600	CARBON 47 JA 1/4W	1
R158	401 025 2305	CARBON 150K JA 1/6W	1	R237	401 019 9600	CARBON 47 JA 1/4W	1
R159	401 025 2305	CARBON 150K JA 1/6W	1	R238	401 019 9600	CARBON 47 JA 1/4W	1
R160	401 024 7707	CARBON 100K JA 1/6W	1	R239	401 019 9600	CARBON 47 JA 1/4W	1
R161	401 024 7707	CARBON 100K JA 1/6W	1	R240	402 037 7203	FUSIBLE RES 330 JA 1/4W	1
R162	401 026 7408	CARBON 39K JA 1/6W	1	or	402 015 8901	FUSIBLE RES 330 J- 1/4W	1
R163	401 026 7408	CARBON 39K JA 1/6W	1	R241	402 037 7203	FUSIBLE RES 330 JA 1/4W	1
R164	401 026 4605	CARBON 33K JA 1/6W	1	or	402 015 8901	FUSIBLE RES 330 J- 1/4W	1
R165	401 026 4605	CARBON 33K JA 1/6W	1	R242	402 037 7104	FUSIBLE RES 2.2 JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty	
or	402 015 8406	FUSIBLE RES	2.2 J- 1/4W	1	R325	401 019 1000	CARBON 390 JA 1/4W	1
R243	402 037 7104	FUSIBLE RES	2.2 JA 1/4W	1	R326	402 039 9700	OXIDE-MT 100 JB 1W	1
or	402 015 8406	FUSIBLE RES	2.2 J- 1/4W	1	or	401 058 2600	OXIDE-MT 100 JB 1W	1
R244	402 037 7104	FUSIBLE RES	2.2 JA 1/4W	1	R327	401 023 1706	CARBON 820 JA 1/4W	1
or	402 015 8406	FUSIBLE RES	2.2 J- 1/4W	1	R328	402 040 6200	OXIDE-MT 100 JB 1/2W	1
R245	402 037 7104	FUSIBLE RES	2.2 JA 1/4W	1	or	401 054 8002	OXIDE-MT 100 JB 1/2W	1
or	402 015 8406	FUSIBLE RES	2.2 J- 1/4W	1	R329	401 017 1804	CARBON 2.7K JA 1/4W	1
R252	401 024 6700	CARBON	100 JA 1/6W	1	R330	401 012 7009	CARBON 10K JA 1/4W	1
R253	401 024 6700	CARBON	100 JA 1/6W	1	R331	401 026 4308	CARBON 3.3K JA 1/6W	1
R256	401 026 3905	CARBON	330 JA 1/6W	1	R332	401 012 4503	CARBON 100 JA 1/4W	1
R257	401 026 3905	CARBON	330 JA 1/6W	1	R333	401 024 7004	CARBON 1K JA 1/6W	1
R258	401 024 7024	CARBON	1K JA 1/6W	1	R334	401 024 7004	CARBON 1K JA 1/6W	1
R259	401 024 7024	CARBON	1K JA 1/6W	1	R335	401 024 7004	CARBON 1K JA 1/6W	1
R260	401 024 7024	CARBON	1K JA 1/6W	1	R336	401 024 7004	CARBON 1K JA 1/6W	1
R261	401 024 7024	CARBON	1K JA 1/6W	1	R337	401 024 7004	CARBON 1K JA 1/6W	1
R270	401 022 4104	CARBON	68K JA 1/4W	1	R338	401 024 7004	CARBON 1K JA 1/6W	1
R271	401 027 5908	CARBON	68K JA 1/6W	1	R339	401 018 2800	CARBON 330 JA 1/4W	1
R272	402 037 7005	FUSIBLE RES	47 JA 1/4W	1	R340	401 018 2800	CARBON 330 JA 1/4W	1
or	402 015 9205	FUSIBLE RES	47 J- 1/4W	1	R341	401 024 7707	CARBON 100K JA 1/6W	1
R273	402 037 7005	FUSIBLE RES	47 JA 1/4W	1	R342	401 020 0801	CARBON 470 JA 1/4W	1
or	402 015 9205	FUSIBLE RES	47 J- 1/4W	1	R343	401 020 0801	CARBON 470 JA 1/4W	1
R274	402 037 7005	FUSIBLE RES	47 JA 1/4W	1	R344	401 126 9708	OXIDE-MT 22 JB 1/2W	1
or	402 015 9205	FUSIBLE RES	47 J- 1/4W	1	or	401 126 9609	OXIDE-MT 22 JB 1/2W	1
R275	402 037 7005	FUSIBLE RES	47 JA 1/4W	1	R345	401 018 4903	CARBON 33K JA 1/4W	1
or	402 015 9205	FUSIBLE RES	47 J- 1/4W	1	R346	401 024 7707	CARBON 100K JA 1/6W	1
R276	401 019 3044	CARBON	39K JA 1/4W	1	R347	401 024 7707	CARBON 100K JA 1/6W	1
R277	401 019 3044	CARBON	39K JA 1/4W	1	R348	401 024 7707	CARBON 100K JA 1/6W	1
R278	401 019 3044	CARBON	39K JA 1/4W	1	R349	401 012 8105	CARBON 100K JA 1/4W	1
R279	401 019 3044	CARBON	39K JA 1/4W	1	R350	401 012 8105	CARBON 100K JA 1/4W	1
R280	402 039 8604	OXIDE-MT	4.7K JB 1W	1	R353	401 018 4903	CARBON 33K JA 1/4W	1
or	401 062 2405	OXIDE-MT	4.7K JB 1W	1				
R281	401 025 8208	CARBON	22K JA 1/6W	1				
R282	401 025 8208	CARBON	22K JA 1/6W	1				
R283	401 024 7400	CARBON	10K JA 1/6W	1				
R284	401 025 7805	CARBON	2.2K JA 1/6W	1				
R285	401 026 1000	CARBON	2.7K JA 1/6W	1				
R286	401 019 9600	CARBON	47 JA 1/4W	1				
R287	401 019 9600	CARBON	47 JA 1/4W	1				
R288	402 039 5900	OXIDE-MT	10 JB 2W	1				
or	401 064 6203	OXIDE-MT	10 JB 2W	1				
R289	402 039 5900	OXIDE-MT	10 JB 2W	1				
or	401 064 6203	OXIDE-MT	10 JB 2W	1				
R290	401 026 7408	CARBON	39K JA 1/6W	1				
R291	401 026 7408	CARBON	39K JA 1/6W	1				
R292	401 012 7009	CARBON	10K JA 1/4W	1				
R293	401 012 7009	CARBON	10K JA 1/4W	1				
R298	401 026 7002	CARBON	3.9K JA 1/6W	1				
R300	401 027 2303	CARBON	560 JA 1/6W	1				
R301	401 027 2303	CARBON	560 JA 1/6W	1				
R302	401 026 1307	CARBON	27K JA 1/6W	1				
R303	401 026 1307	CARBON	27K JA 1/6W	1				
R304	401 024 6700	CARBON	100 JA 1/6W	1				
R305	401 024 6700	CARBON	100 JA 1/6W	1				
R306	401 027 0309	CARBON	47K JA 1/6W	1				
R307	401 027 0309	CARBON	47K JA 1/6W	1				
R308	401 018 2800	CARBON	330 JA 1/4W	1				
R309	401 018 2800	CARBON	330 JA 1/4W	1				
R310	401 026 4308	CARBON	3.3K JA 1/6W	1				
R311	401 026 4308	CARBON	3.3K JA 1/6W	1				
R312	401 018 3807	CARBON	3.3K JA 1/4W	1				
R313	401 026 4308	CARBON	3.3K JA 1/6W	1				
R314	401 018 2800	CARBON	330 JA 1/4W	1				
R315	402 040 6002	OXIDE-MT	2.7K JB 1/2W	1				
R316	402 040 0000	OXIDE-MT	56 JB 1W	1				
or	401 062 5208	OXIDE-MT	56 JB 1W	1				
R317	402 040 0000	OXIDE-MT	56 JB 1W	1				
or	401 062 5208	OXIDE-MT	56 JB 1W	1				
R318	402 054 8207	OXIDE-MT	1.2K JB 2W	1				
or	401 154 6106	OXIDE-MT	1.2K JB 2W	1				
R319	402 054 8207	OXIDE-MT	1.2K JB 2W	1				
or	401 154 6106	OXIDE-MT	1.2K JB 2W	1				
R320	402 040 3506	OXIDE-MT	47 JB 1/2W	1				
or	401 056 2909	OXIDE-MT	47 JB 1/2W	1				
R321	402 040 3506	OXIDE-MT	47 JB 1/2W	1				
or	401 056 2909	OXIDE-MT	47 JB 1/2W	1				
R322	401 023 1706	CARBON	820 JA 1/4W	1				
R323	401 023 1706	CARBON	820 JA 1/4W	1				
R324	402 040 2400	OXIDE-MT	47 JB 2W	1				
or	401 068 2508	OXIDE-MT	47 JB 2W	1				
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P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,MOTOR VOLUME							
53	620 198 8949	Assy,PCB,Motor Volume	1	SW516	620 016 7796	Tact Switch	1
PC102	620 199 5992	Wire,Jumper,7P,L = 150	1	SW517	620 016 7796	Tact Switch	1
PC103	620 199 5879	Wire,Jumper,2P,L = 190	1	SW518	620 016 7796	Tact Switch	1
VR601	620 199 4520	VR,Rotary,2X100KA,Motor	1	SW519	620 016 7796	Tact Switch	1
R601	401 019 1000	CARBON 390 JA 1/4W	1	SW520	620 016 7796	Tact Switch	1
ASSY,PCB,VOLUME INDICATOR				SW521	620 016 7796	Tact Switch	1
54	620 198 8963	Assy,PCB,Volume Indicator	1	SW523	620 016 6904	Push Switch 1 Key	1
D601	407 065 5009	LED SLP-190B-51	1	VR501	620 199 4537	VR,Rotary,200KW	1
ASSY,PCB,SPEAKER OUT				VR502	620 196 2352	VR,Rotary 2X250KSW	1
55	620 203 9732	Assy,PCB,Speaker Out	1	VR503	620 196 2352	VR,Rotary 2X250KSW	1
	620 185 1953	Push Terminal 8P	1	VR504	620 196 2352	VR,Rotary 2X250KSW	1
C601	403 069 0705	CERAMIC 1000P K 50V	1	VR505	620 196 2352	VR,Rotary 2X250KSW	1
C602	403 069 0705	CERAMIC 1000P K 50V	1	VR506	620 196 2352	VR,Rotary 2X250KSW	1
C603	403 069 0705	CERAMIC 1000P K 50V	1	W501	620 021 0324	Connector 1P Assy	1
C604	403 069 0705	CERAMIC 1000P K 50V	1	IC501	410 084 9309	IC TMP47C870N-4629	1
ASSY,PCB,POWER SWITCH				Q501	405 057 6300	TR 2SC4038-S-TL2	1
56	620 203 9756	Assy,PCB,Power Switch	1	or	405 057 6409	TR 2SC4038-R-TL2	1
	△ 620 015 2341	Switch Push Power	1	or	405 012 8608	TR 2SC2021-S	1
	620 185 1946	Jack 3P	1	or	405 012 8509	TR 2SC2021-R	1
	620 204 0776	Switch,Push,2K-4P-2T	1	Q503	405 057 6300	TR 2SC4038-S-TL2	1
	620 031 4763	Wire Wrap Terminal	2	or	405 057 6409	TR 2SC4038-R-TL2	1
PC107	620 199 6180	Wire,Parallel,6P,L = 240	1	or	405 012 8608	TR 2SC2021-S	1
W602	620 020 5887	Connector 1P Assy	1	or	405 012 8509	TR 2SC2021-R	1
C607	403 074 2701	CERAMIC 0.047U Z 50V	1	Q504	405 057 6300	TR 2SC4038-S-TL2	1
R602	402 040 1601	OXIDE-MT 560 JB 2W	1	or	405 057 6409	TR 2SC4038-R-TL2	1
R603	402 040 1601	OXIDE-MT 560 JB 2W	1	or	405 012 8608	TR 2SC2021-S	1
R604	401 017 0807	CARBON 270 JA 1/4W	1	or	405 012 8509	TR 2SC2021-R	1
R605	401 017 0807	CARBON 270 JA 1/4W	1	Q505	405 057 6300	TR 2SC4038-S-TL2	1
R606	401 017 0807	CARBON 270 JA 1/4W	1	or	405 057 6409	TR 2SC4038-R-TL2	1
R607	401 017 0807	CARBON 270 JA 1/4W	1	or	405 012 8608	TR 2SC2021-S	1
ASSY,PCB,R/C				or	405 012 8509	TR 2SC2021-R	1
57	620 198 8994	Assy,PCB,R/C	1	Q506	405 057 6300	TR 2SC4038-S-TL2	1
	620 021 1970	Plug 2P	1	or	405 057 6409	TR 2SC4038-R-TL2	1
	620 021 5930	Plug 4P	1	or	405 012 8608	TR 2SC2021-S	1
	620 187 0244	Bracket Connect PC	1	or	405 012 8509	TR 2SC2021-R	1
ASSY,PCB,BIAS				Q507	405 004 4502	TR 2SA608-F-NP	1
58	620 198 9007	Assy,PCB,Bias	2	or	405 004 5004	TR 2SA608-G-NP	1
PC110	620 190 7827	Wire 3S Parallel	1	Q508	405 019 2708	TR 2SC536-F-NP	1
Q601	405 022 8001	TR 2SD1682-S	1	or	405 019 3804	TR 2SC536-G-NP	1
or	405 022 8209	TR 2SD1682-T	1	Q509	405 019 2708	TR 2SC536-F-NP	1
ASSY,PCB,MICOM				or	405 019 3804	TR 2SC536-G-NP	1
59	620 203 9763	Assy,PCB,Micom	1	Q510	405 004 4502	TR 2SA608-F-NP	1
	620 199 7354	Shield,Plate	1	or	405 004 5004	TR 2SA608-G-NP	1
	620 202 0648	Cushion,Rubber	3	Q511	405 019 2708	TR 2SC536-F-NP	1
CX501	620 026 9070	CSA 4.19M Resonator	1	or	405 019 3804	TR 2SC536-G-NP	1
FL501	620 182 6609	Digitron BG-562GK	1	Q512	405 019 2708	TR 2SC536-F-NP	1
PC501	620 199 6067	Wire,Jumper,8P,L = 200	1	or	405 019 3804	TR 2SC536-G-NP	1
PC502	620 199 6043	Wire,Jumper,7P,L = 200	1	Q513	405 004 4502	TR 2SA608-F-NP	1
PC503	620 200 7533	Wire,Jumper,9P,L = 200	1	or	405 004 5004	TR 2SA608-G-NP	1
PC504	620 200 7533	Wire,Jumper,9P,L = 200	1	D501	407 008 0405	DIODE GMB01-BT	1
PC505	620 199 6043	Wire,Jumper,7P,L = 200	1	or	407 012 4208	DIODE 1SS131-T-77	1
PC506	620 199 6043	Wire,Jumper,7P,L = 200	1	D502	407 005 3805	DIODE DS442-BT	1
PC507	620 199 5961	Wire,Jumper,3P,L = 200	1	D503	407 008 0405	DIODE GMB01-BT	1
PC508	620 199 5978	Wire,Jumper,3P,L = 210	1	or	407 012 4208	DIODE 1SS131-T-77	1
PC509	620 199 6135	Wire,Jumper,3P,L = 160	1	D505	407 005 3805	DIODE DS442-BT	1
RB501	620 004 5513	Resistor 10KX7	1	D507	407 005 3805	DIODE DS442-BT	1
RB502	620 004 5506	Resistor 10KX6	1	D508	407 005 3805	DIODE DS442-BT	1
SW501	620 016 7796	Tact Switch	1	D509	407 005 3805	DIODE DS442-BT	1
SW502	620 016 7796	Tact Switch	1	D510	407 005 3805	DIODE DS442-BT	1
SW503	620 016 7796	Tact Switch	1	D511	407 005 3805	DIODE DS442-BT	1
SW504	620 016 7796	Tact Switch	1	D512	407 005 3805	DIODE DS442-BT	1
SW505	620 016 7796	Tact Switch	1	D513	407 005 3805	DIODE DS442-BT	1
SW506	620 016 7796	Tact Switch	1	D514	407 005 3805	DIODE DS442-BT	1
SW507	620 016 7796	Tact Switch	1	D515	407 005 3805	DIODE DS442-BT	1
SW508	620 016 7796	Tact Switch	1	D516	407 005 3805	DIODE DS442-BT	1
SW509	620 016 7796	Tact Switch	1	D517	407 005 3805	DIODE DS442-BT	1
SW510	620 016 7796	Tact Switch	1	D518	407 005 3805	DIODE DS442-BT	1
SW511	620 016 7796	Tact Switch	1	D520	407 005 3805	DIODE DS442	1
SW512	620 016 7796	Tact Switch	1	RC501	407 102 2800	SENSOR SBX1492-52	1
SW513	620 016 7796	Tact Switch	1	C501	404 039 4303	ELECT 2200U M - 10V	1
SW514	620 016 7796	Tact Switch	1	or	404 032 2207	ELECT 2200U M 10V	1
SW515	620 016 7796	Tact Switch	1	C502	404 039 4402	ELECT 100U M 10V	1
				or	404 032 5802	ELECT 100U M 10V	1
				C503	403 069 8404	CERAMIC 0.01U Z 50V	1
				C504	403 069 1207	CERAMIC 1000P K 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
C505	403 022 5907	CERAMIC 33P J 50V	1	or	620 186 0528	IFT AM	1
C506	403 022 5907	CERAMIC 33P J 50V	1	or	620 027 7006	IFT AM	1
C507	403 067 5603	MT-COMPO 0.1U J 50V	1	T406	620 189 6008	IFT DET 10.7MHz 1st K	1
C508	403 042 0302	ELECT 10U M 16V	1	or	620 190 3652	FM DET Coil	1
C509	403 049 1708	ELECT 1U M 50V	1	or	620 188 9963	FM DET Coil	1
C510	403 069 8404	CERAMIC 0.01U Z 50V	1	T407	620 189 6015	IFT DET 10.7MHz 2nd K	1
C511	403 038 7209	ELECT 220U M 6.3V	1	or	620 190 3669	FM DET Coil	1
C512	403 069 1207	CERAMIC 1000P K 50V	1	or	620 188 9970	FM DET Coil	1
C513	403 054 1304	ELECT 47U M 35V	1	T408	620 026 4396	Anti Birdie Filter	1
C514	403 038 2402	ELECT 100U M 6.3V	1	VR401	620 006 1377	Potentiometer 10KB	1
R501	401 023 3700	CARBON 82K JA 1/4W	1	VR402	620 006 1384	Potentiometer 220KB	1
R502	401 023 3700	CARBON 82K JA 1/4W	1	VR403	620 006 1353	Potentiometer 100KB	1
R503	401 023 3700	CARBON 82K JA 1/4W	1	X401	620 007 1338	Crystal 7.2MHz	1
R504	401 023 3700	CARBON 82K JA 1/4W	1	or	620 007 1314	Crystal 7.2MHz	1
R505	401 023 3700	CARBON 82K JA 1/4W	1	or	620 007 3226	Crystal 7.2MHz	1
R506	401 023 3700	CARBON 82K JA 1/4W	1	IC401	409 073 9505	IC LA1266	1
R507	401 027 0309	CARBON 47K JA 1/6W	1	IC402	409 017 1008	IC LA3401	1
R508	401 020 2904	CARBON 47K JA 1/4W	1	IC403	409 066 7600	IC LM7001	1
R509	401 020 2904	CARBON 47K JA 1/4W	1	Q401	405 027 0505	TR 2SK246-GR	1
R510	401 025 7805	CARBON 2.2K JA 1/6W	1	Q402	405 016 0806	TR 2SC2839-E	1
R511	401 024 7004	CARBON 1K JA 1/6W	1	Q406	405 004 4502	TR 2SA608-F-NP	1
R512	401 012 7009	CARBON 10K JA 1/4W	1	or	405 004 5004	TR 2SA608-G-NP	1
R513	401 016 3809	CARBON 2.2K JA 1/4W	1	Q409	405 003 7702	TR 2SA1346	1
R514	401 016 3809	CARBON 2.2K JA 1/4W	1	Q411	405 019 2708	TR 2SC536-F-NP	1
R515	401 016 3809	CARBON 2.2K JA 1/4W	1	or	405 019 3804	TR 2SC536-G-NP	1
R516	401 016 3809	CARBON 2.2K JA 1/4W	1	Q413	405 027 8402	TR 2SK583	1
R517	401 012 7009	CARBON 10K JA 1/4W	1	or	405 038 3809	TR 2SK669	1
R518	401 027 0309	CARBON 47K JA 1/6W	1	Q414	405 019 2708	TR 2SC536-F-NP	1
R519	401 025 7805	CARBON 2.2K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-NP	1
R520	401 013 9507	CARBON 1.3K JA 1/4W	1	Q415	405 019 2708	TR 2SC536-F-NP	1
R521	401 018 2800	CARBON 330 JA 1/4W	1	or	405 019 3804	TR 2SC536-G-NP	1
R522	401 018 3807	CARBON 3.3K JA 1/4W	1	Q416	405 019 2708	TR 2SC536-F-NP	1
R523	401 024 7004	CARBON 1K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-NP	1
R524	401 027 0309	CARBON 47K JA 1/6W	1	Q417	405 004 4502	TR 2SA608-F-NP	1
R525	401 027 0507	CARBON 470K JA 1/6W	1	or	405 004 5004	TR 2SA608-G-NP	1
R526	401 024 7707	CARBON 100K JA 1/6W	1	Q419	405 021 0907	TR 2SD1012-H-SPA-AC	1
R527	401 027 0309	CARBON 47K JA 1/6W	1	If necessary, replace both Diode D402, D403 (SVC321) together with new ones which have the equivalent characteristics.			
R528	401 027 5908	CARBON 68K JA 1/6W	1				
R529	401 027 5908	CARBON 68K JA 1/6W	1	D402	407 000 4708	VARACTOR DI SVC321C-2	1
R530	401 024 7400	CARBON 10K JA 1/6W	1	or	407 000 4807	VARACTOR DI SVC321D-2	1
R531	401 027 0309	CARBON 47K JA 1/6W	1	D403	407 000 4708	VARACTOR DI SVC321C-2	1
R532	401 024 7400	CARBON 10K JA 1/6W	1	or	407 000 4807	VARACTOR DI SVC321D-2	1
R533	401 024 6700	CARBON 100 JA 1/6W	1	D408	407 050 4802	ZENER DIODE GZA5.1Y-BT	1
R534	401 025 7805	CARBON 2.2K JA 1/6W	1	D410	407 049 6008	ZENER DIODE GZA11Y-BT	1
R535	401 027 0309	CARBON 47K JA 1/6W	1	or	407 049 5902	ZENER DIODE GZA11X	1
ASSY,PCB,POWER INDICATOR				D412	407 125 8209	DIODE HSS271	1
60	620 198 9045	Assy,PCB,Power Indicator	1	or	407 012 4208	DIODE 1SS131-T-77	1
	620 016 7796	Tact Switch	1	or	407 008 0405	DIODE GMB01-BT	1
D519	407 028 8504	LED SLP-173B (STOPPER)	1	C403	403 074 2701	CERAMIC 0.047U Z 50V	1
ASSY,PCB,TUNER				C404	403 026 5408	CERAMIC 47P K 50V	1
61	620 203 9770	Assy,PCB,Tuner	1	C406	403 074 2701	CERAMIC 0.047U Z 50V	1
	620 021 6814	Pin 1P	8	C407	403 074 2701	CERAMIC 0.047U Z 50V	1
	620 022 2921	ANT Terminal 3P	1	C408	403 069 8404	CERAMIC 0.01U Z 50V	1
	620 190 0521	Cover Shield	1	C409	403 069 8404	CERAMIC 0.01U Z 50V	1
	620 189 5872	Plate Sever	1	C410	403 042 3501	ELECT 100U M 16V	1
CF401	620 014 5664	Ceramic Filter	1	C411	403 069 8404	CERAMIC 0.01U Z 50V	1
CF402	620 014 5664	Ceramic Filter	1	C414	403 074 2701	CERAMIC 0.047U Z 50V	1
CF403	620 014 5879	Ceramic Filter 450kHz	1	C415	403 074 2701	CERAMIC 0.047U Z 50V	1
CF404	620 014 5862	Ceramic Filter 450kHz	1	C416	403 038 2303	ELECT 100U M 6.3V	1
CF405	620 014 6258	Ceramic OSC	1	C417	403 069 8404	CERAMIC 0.01U Z 50V	1
FE401	620 191 8632	FM Frontend 4EU AGC	1	C418	403 069 8404	CERAMIC 0.01U Z 50V	1
(Component parts used in Front End are not serviceable and available.)				C419	403 044 0201	ELECT 47U M 16V	1
				C422	403 088 4104	STYRENE 430P J 50V	1
F401	620 026 9353	FTZ Antenna Filter	1	C423	403 019 0502	CERAMIC 24P J 50V	1
L401	620 197 9527	Inductor 470UH K	1	C425	403 042 0302	ELECT 10U M 16V	1
PC401	620 202 8330	Wire,Jumper,4P,L = 160	1	C426	403 047 1502	ELECT 4.7U M 25V	1
PC402	620 201 8096	Wire,Jumper,6P,L = 160	1	C427	403 050 7706	ELECT 3.3U M 50V	1
TC401	620 007 0867	Trimmer 10PF	1	C428	403 047 1502	ELECT 4.7U M 25V	1
T401	620 185 9041	MW Antenna Coil	1	C429	403 049 1609	ELECT 1U M 50V	1
or	620 028 1348	MW Antenna Coil	1	C430	403 069 8404	CERAMIC 0.01U Z 50V	1
T403	620 190 3676	OSC Coil MW	1	C431	403 072 7906	CERAMIC 330P K 50V	1
or	620 185 9058	OSC Coil MW	1	C432	403 049 1609	ELECT 1U M 50V	1
or	620 028 7753	OSC Coil MW	1	C434	403 069 8404	CERAMIC 0.01U Z 50V	1
T405	620 190 9227	IFT AM	1	C435	403 060 8403	POLYESTER 0.033U K 50V	1
				C436	403 039 2906	ELECT 47U M 6.3V	1
				C437	403 073 8407	CERAMIC 4700P K 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C438	403 069 0705	CERAMIC	1000P K 50V
C439	403 073 3006	CERAMIC	390P K 50V
C440	403 075 0508	CERAMIC	6800P K 50V
C441	403 073 6502	CERAMIC	470P K 50V
C442	403 073 6502	CERAMIC	470P K 50V
C443	403 067 7706	MT-COMPO	0.047U J 50V
C444	403 069 8404	CERAMIC	0.01U Z 50V
C445	403 049 1609	ELECT	1U M 50V
C446	403 048 7602	ELECT	0.47U M 50V
C447	403 049 1609	ELECT	1U M 50V
C448	403 042 3600	ELECT	100U M 16V
C449	403 069 8404	CERAMIC	0.01U Z 50V
C450	403 042 0302	ELECT	10U M 16V
C451	403 049 1609	ELECT	1U M 50V
C452	403 049 1609	ELECT	1U M 50V
C453	403 072 9603	CERAMIC	3300P K 50V
C454	403 072 9603	CERAMIC	3300P K 50V
C459	403 069 0705	CERAMIC	1000P K 50V
C460	403 009 8105	CERAMIC	100P K 50V
C461	403 069 8404	CERAMIC	0.01U Z 50V
C464	403 049 1609	ELECT	1U M 50V
C465	403 072 9603	CERAMIC	3300P K 50V
C466	403 044 0201	ELECT	47U M 16V
C467	403 069 8404	CERAMIC	0.01U Z 50V
C468	403 038 7100	ELECT	220U M 6.3V
C469	403 022 0902	CERAMIC	30P J 50V
C470	403 022 0902	CERAMIC	30P J 50V
C471	403 043 7003	ELECT	330U M 16V
C472	403 069 8404	CERAMIC	0.01U Z 50V
C474	403 074 2701	CERAMIC	0.047U Z 50V
C476	403 028 8001	CERAMIC	56P K 50V
C481	403 023 1700	CERAMIC	33P K 50V
R401	401 016 3809	CARBON	2.2K JA 1/4W
R403	401 024 7707	CARBON	100K JA 1/6W
R405	401 024 7004	CARBON	1K JA 1/6W
R406	401 024 8001	CARBON	1M JA 1/6W
R407	401 026 6609	CARBON	390 JA 1/6W
R408	401 026 1000	CARBON	2.7K JA 1/6W
R409	401 012 5708	CARBON	1K JA 1/4W
R410	401 012 4503	CARBON	100 JA 1/4W
R411	401 026 3905	CARBON	330 JA 1/6W
R412	401 025 7805	CARBON	2.2K JA 1/6W
R413	401 026 6609	CARBON	390 JA 1/6W
R414	401 026 6609	CARBON	390 JA 1/6W
R415	401 027 8305	CARBON	820 JA 1/6W
R416	401 023 3700	CARBON	82K JA 1/4W
R417	401 026 7408	CARBON	39K JA 1/6W
R418	401 027 0309	CARBON	47K JA 1/6W
R419	401 023 3700	CARBON	82K JA 1/4W
R421	401 012 4503	CARBON	100 JA 1/4W
R422	401 025 1902	CARBON	15K JA 1/6W
R423	401 026 4308	CARBON	3.3K JA 1/6W
R424	401 016 1508	CARBON	22 JA 1/4W
R425	401 025 8208	CARBON	22K JA 1/6W
R426	401 016 3809	CARBON	2.2K JA 1/4W
R427	401 026 9907	CARBON	4.7K JA 1/6W
R434	401 024 7707	CARBON	100K JA 1/6W
R435	401 016 3809	CARBON	2.2K JA 1/4W
R436	401 024 7707	CARBON	100K JA 1/6W
R437	401 027 0309	CARBON	47K JA 1/6W
R438	401 025 8208	CARBON	22K JA 1/6W
R439	401 026 9907	CARBON	4.7K JA 1/6W
R440	401 025 8208	CARBON	22K JA 1/6W
R446	401 026 4308	CARBON	3.3K JA 1/6W
R448	401 027 5502	CARBON	6.8K JA 1/6W
R449	401 025 7805	CARBON	2.2K JA 1/6W
R450	401 024 8704	CARBON	110K JA 1/6W
R451	401 024 8704	CARBON	110K JA 1/6W
R452	401 025 4903	CARBON	180K JA 1/6W
R453	401 025 4903	CARBON	180K JA 1/6W
R454	401 025 7805	CARBON	2.2K JA 1/6W
R455	401 025 7805	CARBON	2.2K JA 1/6W
R456	401 024 7707	CARBON	100K JA 1/6W
R457	401 024 7707	CARBON	100K JA 1/6W
R458	401 024 7004	CARBON	1K JA 1/6W
R459	401 024 7004	CARBON	1K JA 1/6W
R460	401 026 4308	CARBON	3.3K JA 1/6W
R461	401 026 4308	CARBON	3.3K JA 1/6W
R462	401 014 6109	CARBON	15

Ref. No.	Part No.	Description	Q'ty
R463	401 027 2303	CARBON 560 JA 1/6W	1
R464	401 024 7707	CARBON 100K JA 1/6W	1
R467	401 012 4503	CARBON 100 JA 1/4W	1
R468	401 026 4308	CARBON 3.3K JA 1/6W	1
R469	401 024 7400	CARBON 10K JA 1/6W	1
R471	401 019 9800	CARBON 47 JA 1/4W	1
R472	401 016 4806	CARBON 22K JA 1/4W	1
R477	401 024 7004	CARBON 1K JA 1/6W	1
R478	401 024 7400	CARBON 10K JA 1/6W	1
R479	401 024 7400	CARBON 10K JA 1/6W	1
R480	401 021 3009	CARBON 5.6K JA 1/4W	1
R481	401 012 5708	CARBON 1K JA 1/4W	1
R485	401 024 7400	CARBON 10K JA 1/6W	1
R486	401 024 7400	CARBON 10K JA 1/6W	1
R487	401 024 7400	CARBON 10K JA 1/6W	1
R488	402 040 4909	OXIDE-MT 270 JB 1/2W	1
or	401 055 7004	OXIDE-MT 270 JB 1/2W	1
R490	401 024 7707	CARBON 100K JA 1/6W	1
R491	401 023 2802	CARBON 8.2K JA 1/4W	1
R492	401 012 7009	CARBON 10K JA 1/4W	1
R493	401 026 9907	CARBON 4.7K JA 1/6W	1
R495	401 012 4503	CARBON 100 JA 1/4W	1
R496	401 024 7004	CARBON 1K JA 1/6W	1

ASSY.PCB.LAMP

62	620 198 9069	Assy,PCB,Lamp	1
	620 030 8083	Lamp	2
	620 198 0875	Spacer	2

ASSY,PCB,POWER SUPPLY

63	620 198 9076	Assy,PCB,Power Supply	1
	620 022 2587	EC Terminal 1P	2
	△ 620 191 2692	Power Trans	1
	411 020 8004	SCR S-TPG BRZ 3X8	1
	620 031 4763	Wire Wrap Terminal	5
	620 053 7247	Plate Heat Sink	1
Q701	405 022 8001	TR 2SD1682-S	1
or	405 022 8209	TR 2SD1682-T	1
D701	407 088 6502	DIODE MPG06D-PKG3	1
D702	407 088 6502	DIODE MPG06D-PKG3	1
D703	407 088 6502	DIODE MPG06D-PKG3	1
D704	407 088 6502	DIODE MPG06D-PKG3	1
D705	407 049 6305	ZENER DIODE GZA12Y-BT	1
C701	403 143 2809	CERAMIC 0.047U Z 50V	1
C702	403 143 2809	CERAMIC 0.047U Z 50V	1
C703	403 143 2809	CERAMIC 0.047U Z 50V	1
C704	403 143 2809	CERAMIC 0.047U Z 50V	1
C705	403 042 0302	ELECT 10U M 16V	1
C706	403 054 2608	ELECT 470U M 35V	1
R701	401 012 5708	CARBON 1K JA 1/4W	1

NOTES:

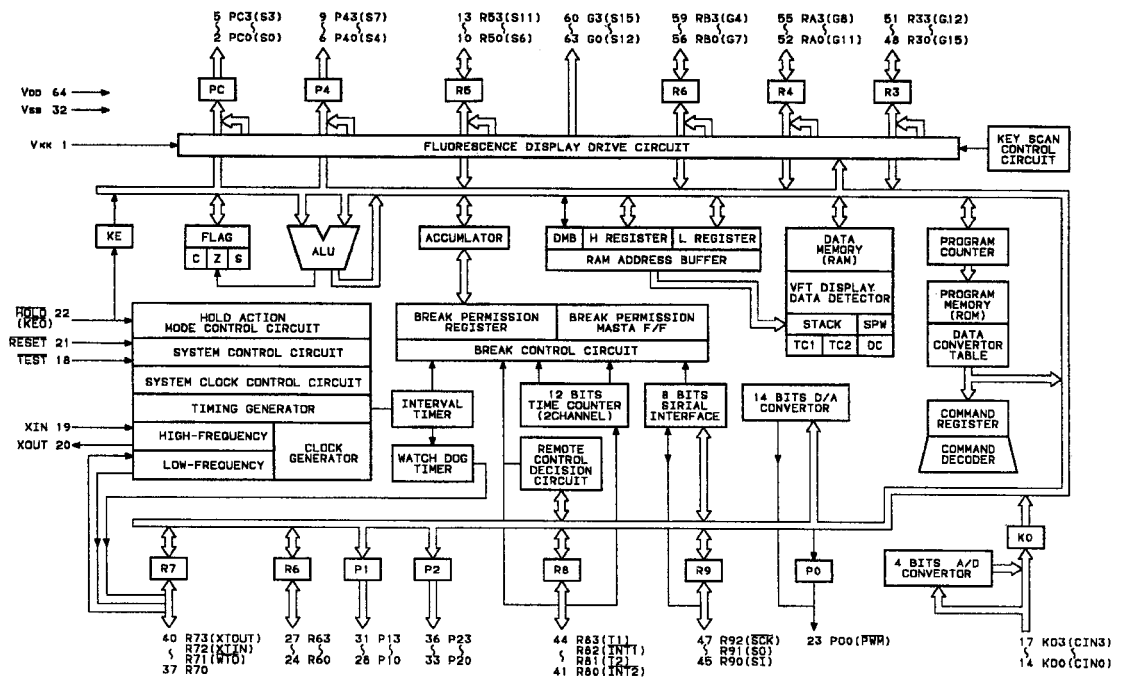
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

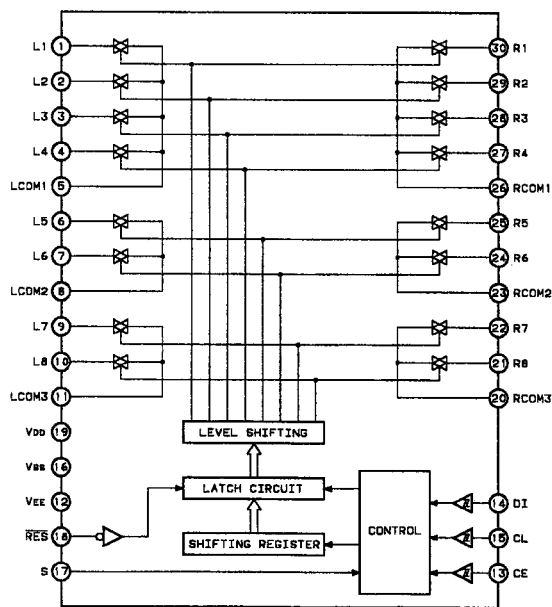
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

IC BLOCK DIAGRAM

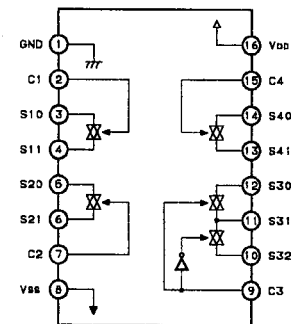
TMP47C870N-4629 BLOCK DIAGRAM



LC7821 BLOCK DIAGRAM

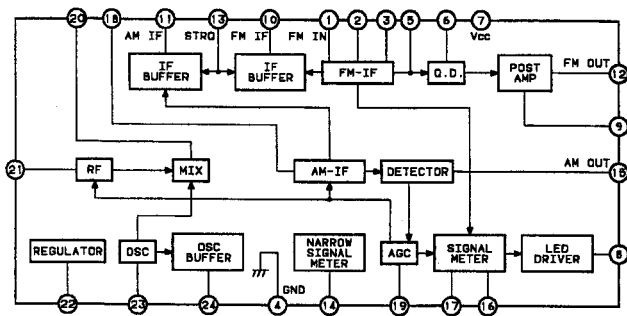


TC9214P BLOCK DIAGRAM

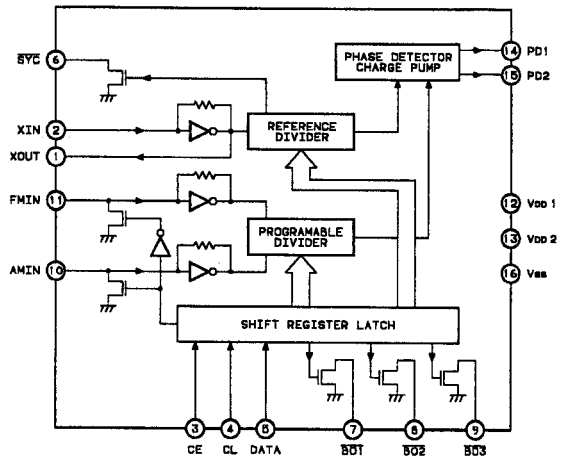


IC BLOCK DIAGRAM (Continued)

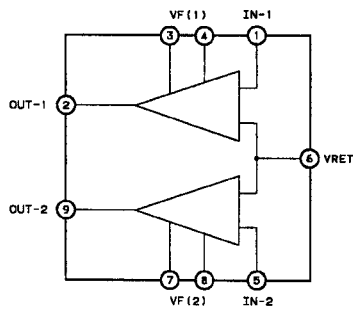
LA1266 BLOCK DIAGRAM



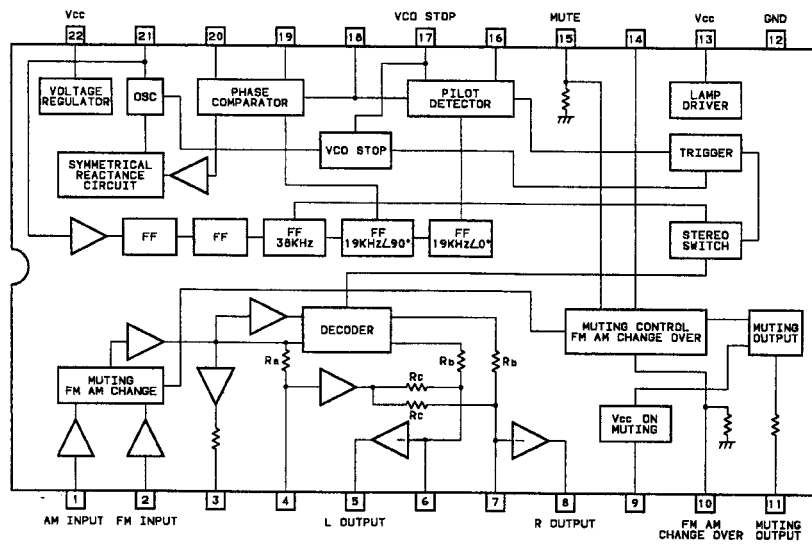
LM7001 BLOCK DIAGRAM



LA2500 BLOCK DIAGRAM

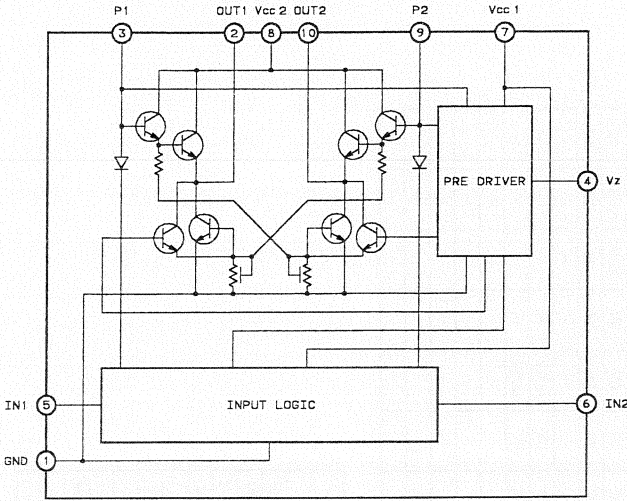


LA3401 BLOCK DIAGRAM

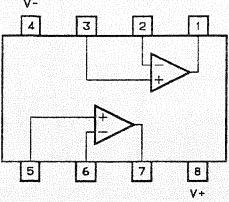


IC BLOCK DIAGRAM (Continued)

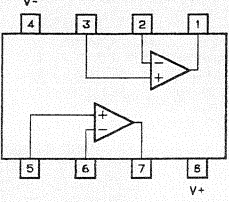
LB1641 BLOCK DIAGRAM



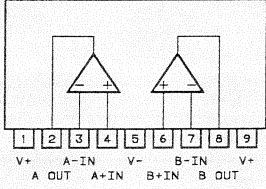
UPC4570C BLOCK DIAGRAM



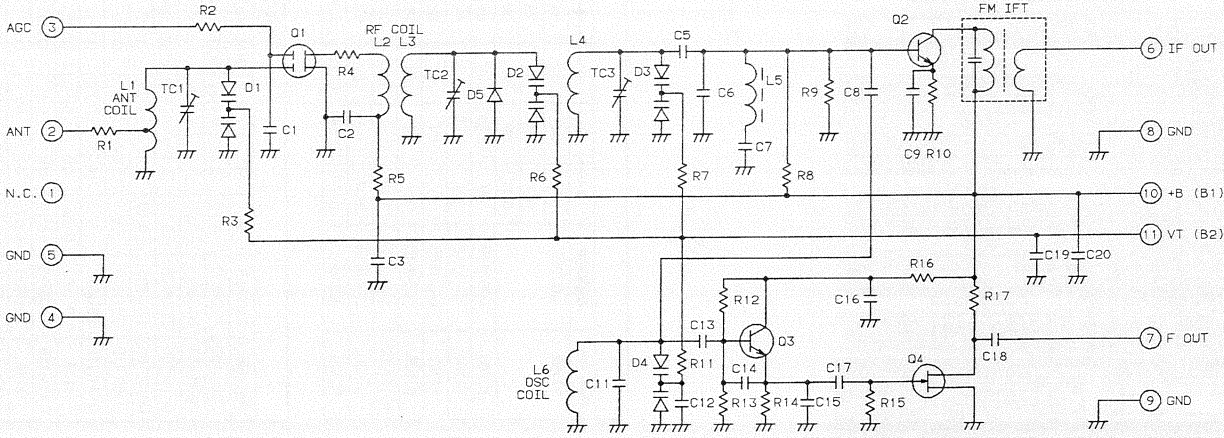
LA6462D BLOCK DIAGRAM



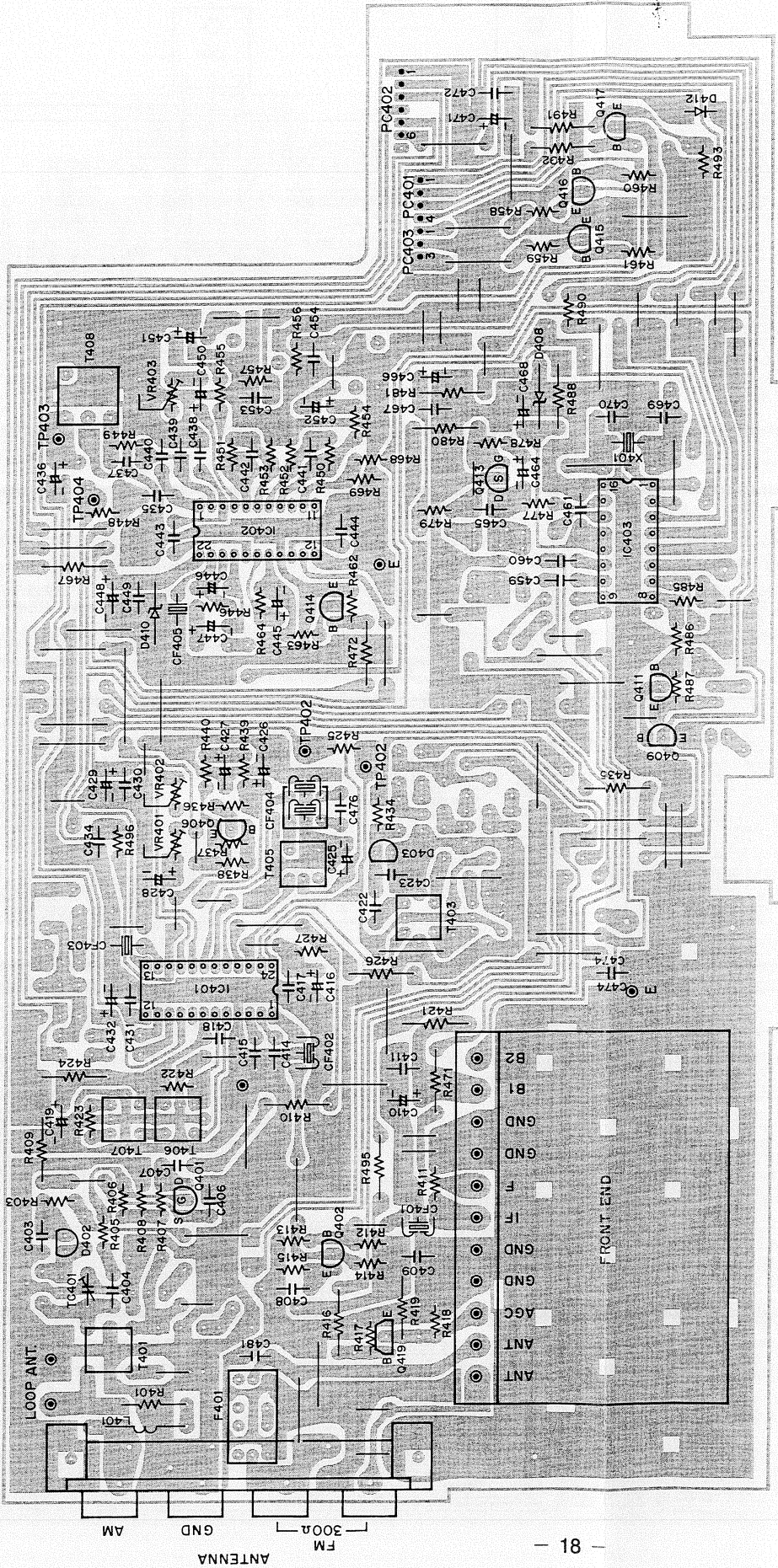
LA6458SS BLOCK DIAGRAM



FM FRONT END SCHEMATIC DIAGRAM



TUNER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)

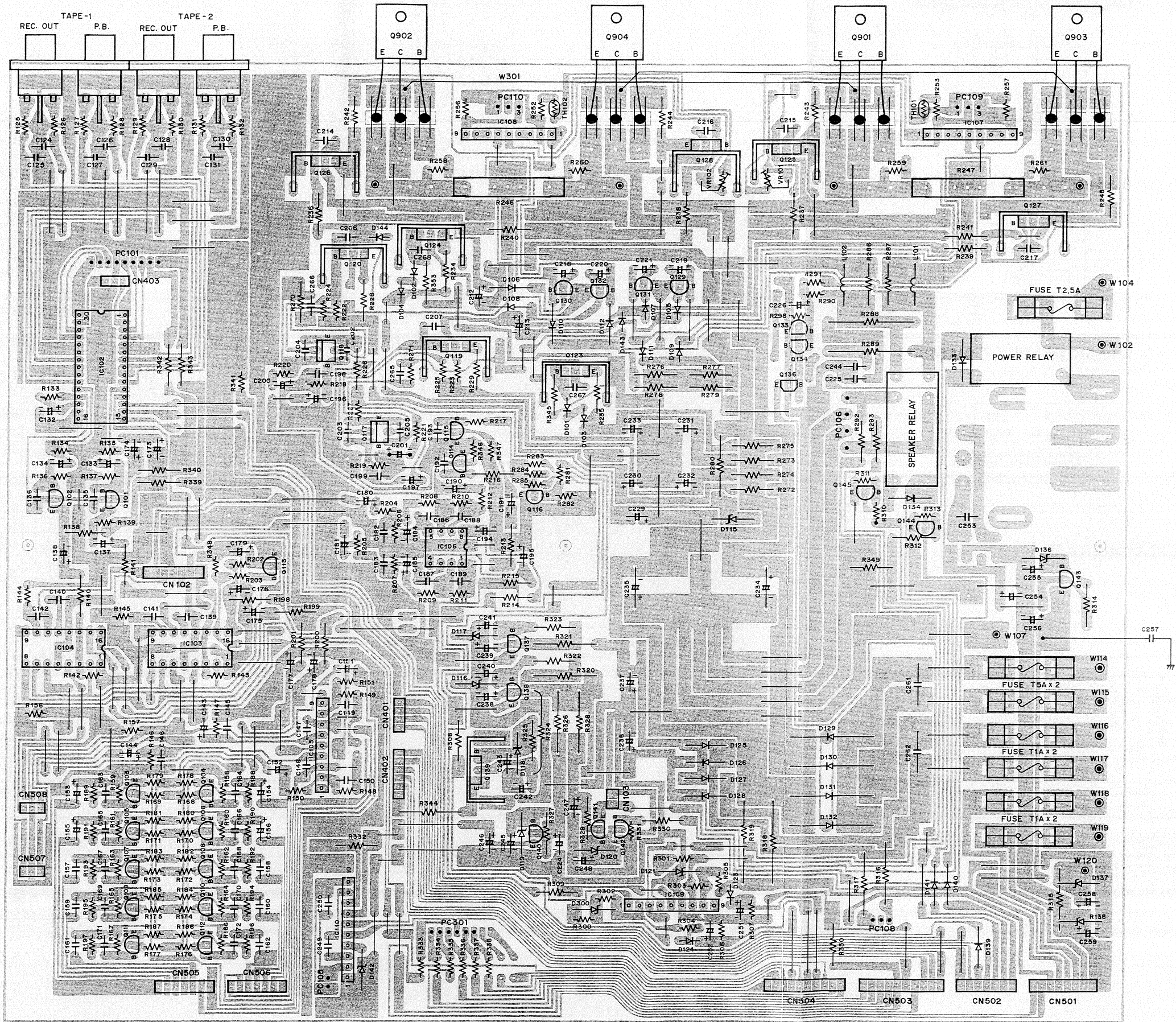


TRANSISTOR DC VOLTAGES											
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	D	G	S		
Q401	2SC2839	1.7V	11.3V	0.6V	Q401	2SK246	4.6V	2.8V	10.9V		
Q402	2SA608	0.8V	1.2V	0.3V	Q413	2SK583	1.4V	0V	1.2V		
Q403	2SA1346	12.4V	0V	12.4V							
Q411	2SC536	0.1V	12.4V	0V							

IC PIN NUMBERS DC VOLTAGES

Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC401	LA1266	2.5V	2.5V	2.5V	0V	11.8V	11.7V	11.7V	0.2V	3.9V	2.4V	2.7V	3.1V	0V	1.5V	1.5V	0V	2.5V	1.5V	0V	
IC402	LA3401	4.0V	4.0V	4.0V	3.1V	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
IC403	LM7001	3.2V	3.2V	3.2V	3.3V	6.4V	3.2V	3.2V	6.4V	3.2V	0V	0V	0V	0V	5.5V	4.9V	1.6V	2.9V	2.8V	2.9V	

MAIN PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



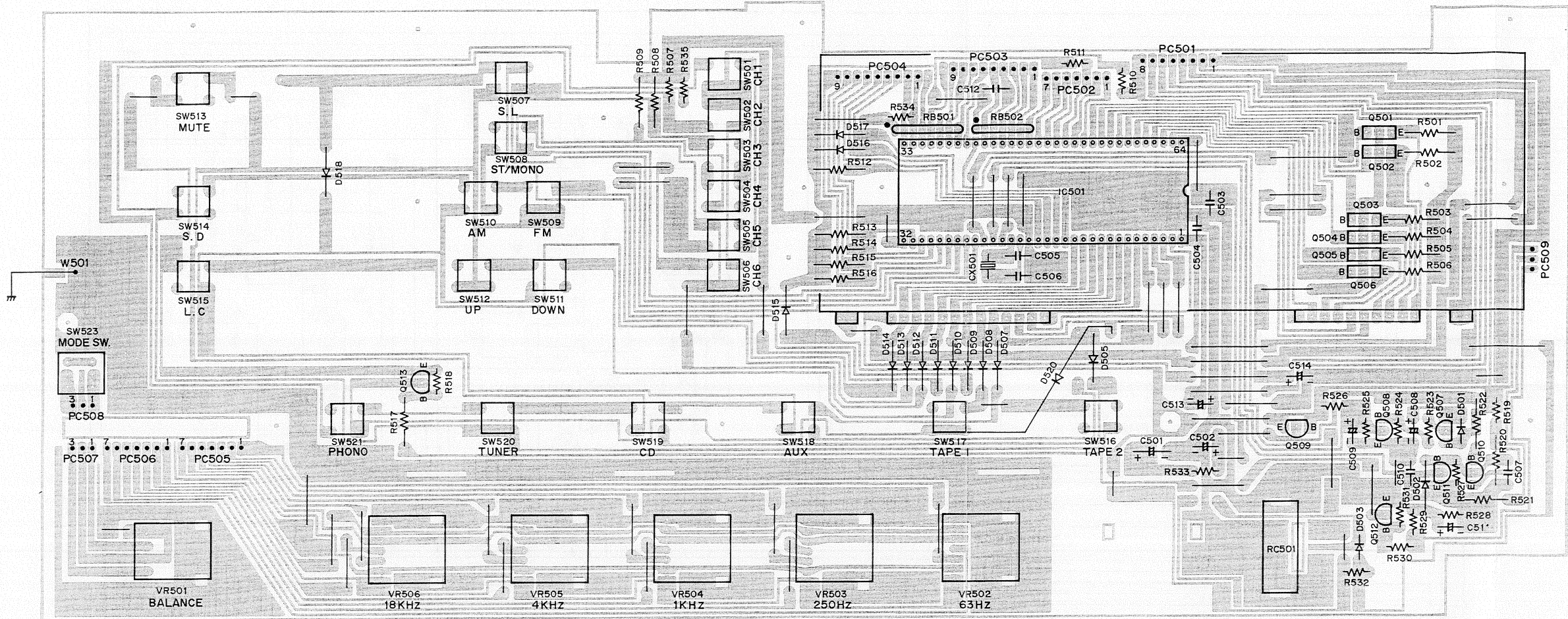
IC PIN NUMBERS DC VOLTAGES

Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC102	LC7821	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
IC103	TC9214P	0V	13.3V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
IC104	TC9214P	0V	13.3V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
IC105	LA6458S	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
IC106	LA6462D	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
IC107,108	LA2500	1.1V	0.3V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V
IC109	LA6458S	16.7V	-0.1V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
IC110	LB1641	0.5V	0.6V	13.2V	13.2V	0V	0V	0V	0.8V	0.7V	0.5V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V

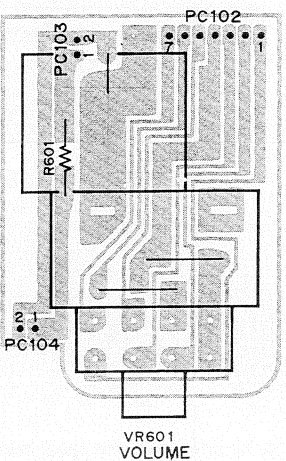
TRANSISTOR DC VOLTAGES

Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q101,102	2SC3331	-0.7V	16.3V	-1.3V	Q138	2SD433	19.0V	22.3V	18.4V
Q103,104	2SC3331	-0.5V	13.4V	-1.1V	Q139	2SD433	15.0V	19.5V	14.4V
Q105,106	2SC3331	-0.3V	13.4V	-0.9V	Q140	2SD433	13.5V	23.1V	13.0V
Q107,108	2SC536	-0.1V	13.4V	-0.7V	Q141	2SC536	5.7V	22.1V	5.1V
Q109,110	2SC536	0V	13.4V	0V	Q142	2SC536	0V	5.7V	0V
Q111,112	2SC536	0V	-0.2V	-0.7V	Q143	2SC536	6.6V	11.8V	6.0V
Q113	2SC536	0.6V	0V	0V	Q144	2SC536	0.7V	0V	0V
Q114,115	2SC792	-3.1V	0V	0V	Q145	2SC536	0.7V	0V	0V
Q116	2SC536	0.6V	0V	0V	Q701	2SD1682	12.4V	22.2V	11.8V
Q117,118	2SC3066	-0.1V	50.9V	-0.6V	Q901,902	2SD3280	0.5V	52.5V	0V
Q119,120	2SA1209	50.8V	1.4V	51.7V	Q903,904	2SA1301	-0.5V	-52.3V	0V

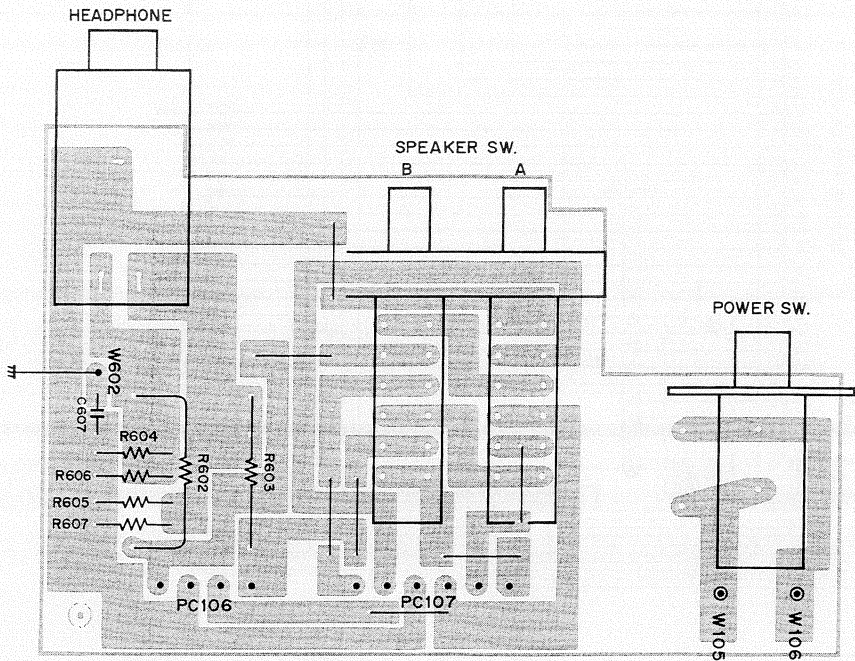
M-COM PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



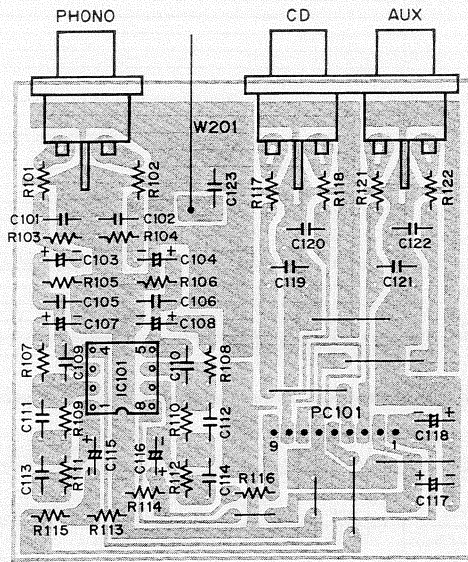
MOTOR P.C.BOARD
(BOTTOM VIEW)



POWER SW. P.C.BOARD
(BOTTOM VIEW)



INPUT P.C.BOARD
(BOTTOM VIEW)

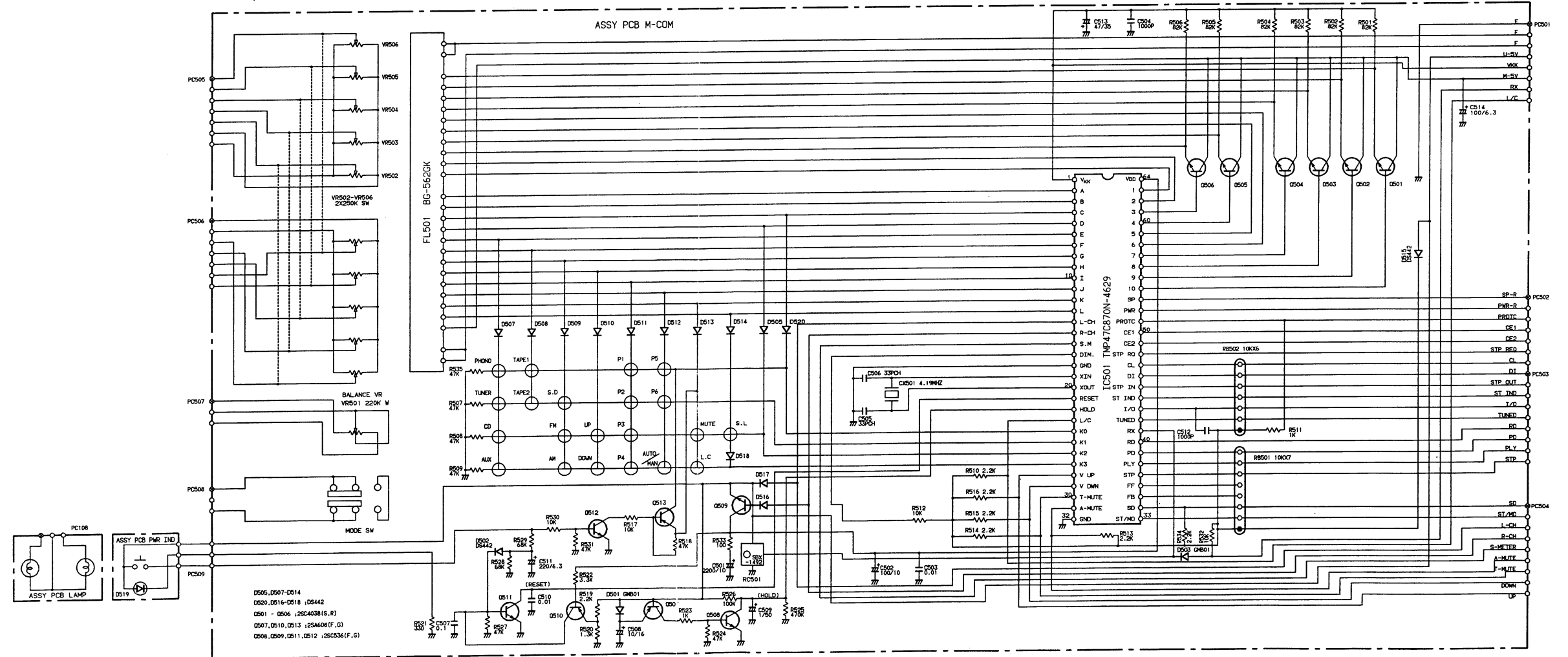
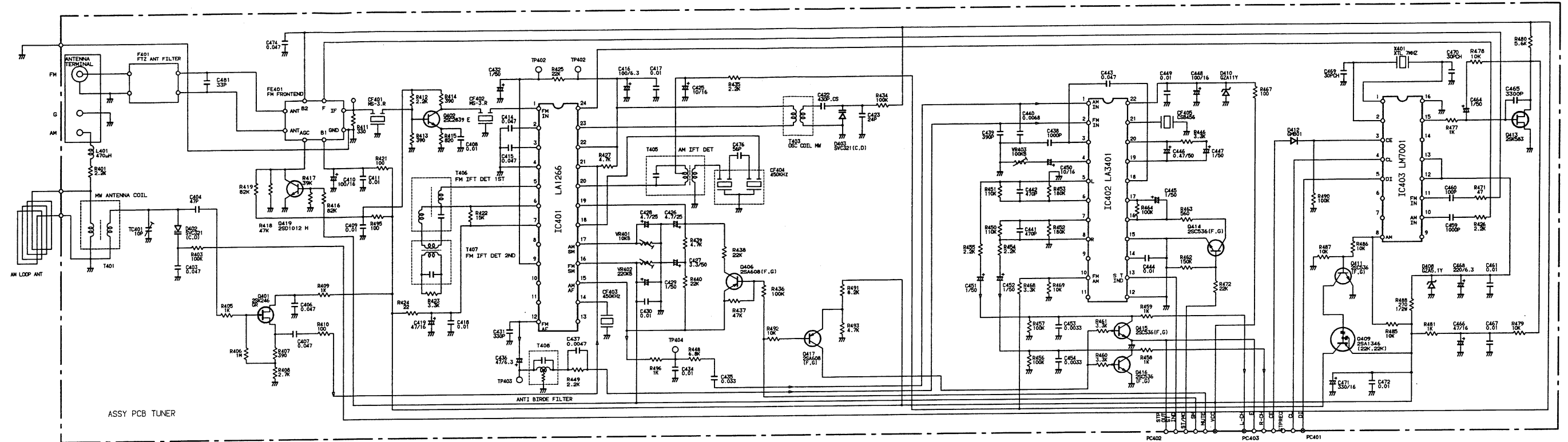


IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC501	TMP47C870N	-29.6V	-15.9V	-19.3V	-13.1V	-19.7V	-18.8V	-16.3V	-22.3V	-15.7V	-22.3V	-15.6V	-19.1V	-29.2V	0V	0V	0V	5.0V	0V	2.6V	2.6V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		5.5V	5.2V	0V	0V	0V	0V	0V	0V	0V	5.1V	0V	4.0V	0V	5.6V	5.5V	5.6V	5.6V	5.6V	0V	
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		6.2V	0V	5.6V	5.6V	0V	0V	0V	-29.4V	-29.3V	-29.3V	5.6V	5.5V	5.5V	-26.3V	-26.3V	-24.3V	-26.3V	-26.7V	-26.6V	-26.4V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		-26.2V	-26.0V	-26.0V	5.6V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

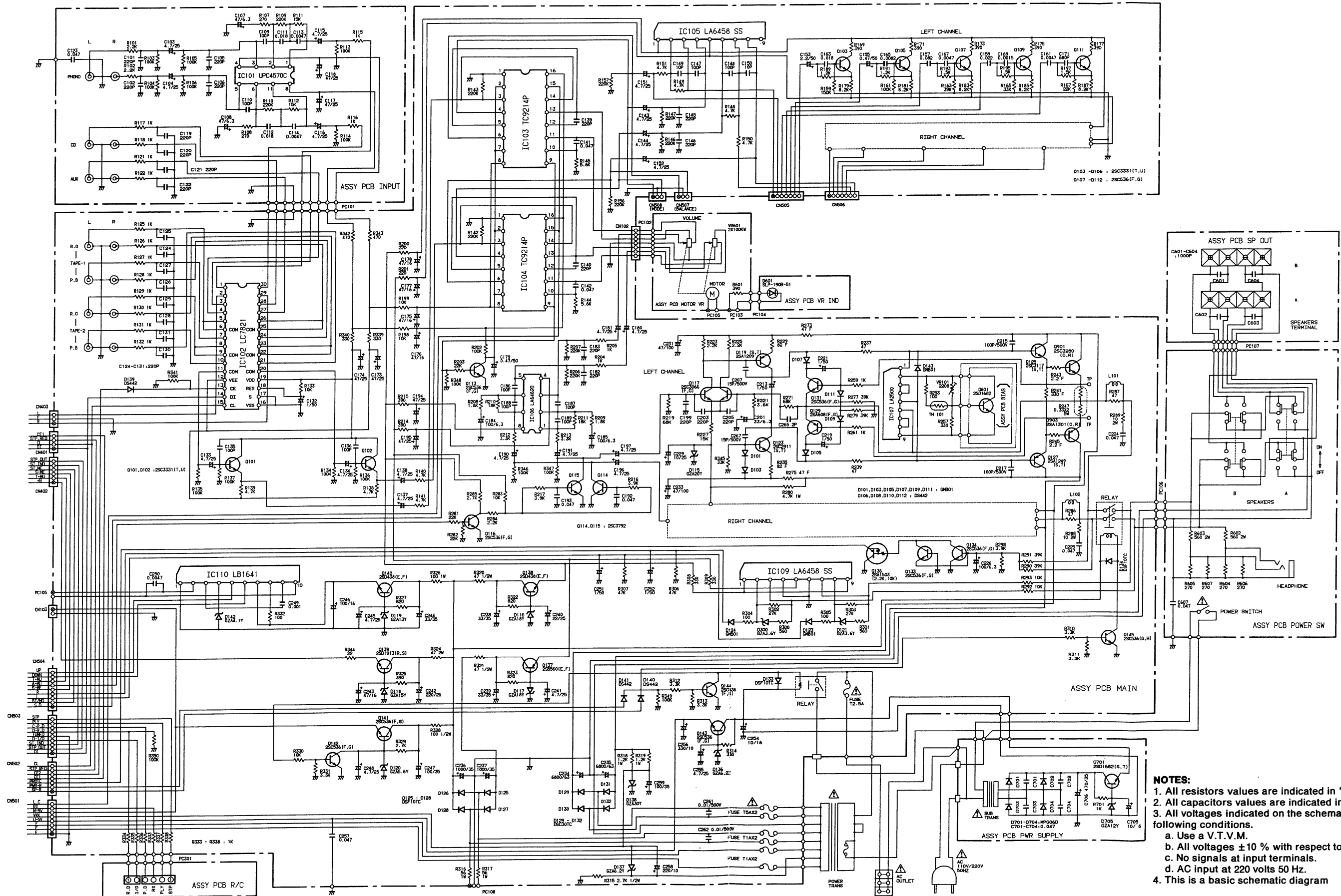
TRANSISTOR DC VOLTAGES											
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE
Q501	2SC2021	-26.3V	5.0V	-26.6V	Q508	2SC536	0V	5.2V	0V	Q515	2SC2021
Q502	2SC2021	-26.3V	5.0V	-26.5V	Q509	2SC536	6.3V	5.6V	6.3V	Q516	2SC2021
Q503	2SC2021	-26.3V	5.0V	-26.5V	Q510	2SA608	5.6V	0V	0V	Q517	2SC2021
Q504	2SC2021	-26.3V	5.0V	-26.5V	Q511	2SC536	0V	5.5V	0V	Q518	2SC2021
Q505	2SC2021	-26.3V	5.0V	-26.4V	Q512	2SC536	0V	4.8V	0V	Q519	2SC2021
Q506	2SC2021	-26.3V	5.0V	-26.4V	Q513	2SA608	4.9V	0V	4.9V	Q520	2SC2021
Q507	2SA608	6.3V	0V	0V						Q521	2SC2021

IC PIN NUMBERS DC VOLTAGES							
Ref. No.	DEVICE	1	2	3	4	5	6
IC101	LA6458	0V	0V	0V	-16.0V	0V	0V

SCHEMATIC DIAGRAM (1)

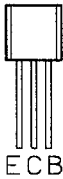

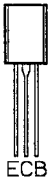

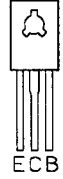



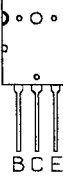




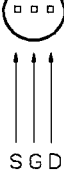

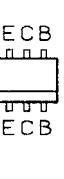
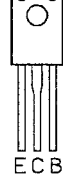


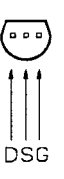

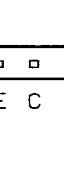


SCHEMATIC DIAGRAM (2)



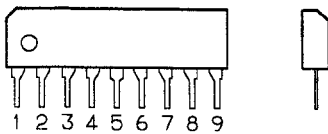
- NOTES:**
1. All resistors values are indicated in "ohm" (K = 10^3 , M = 10^6).
 2. All capacitors values are indicated in "μF" (P = 10^{-12}).
 3. All voltages indicated on the schematics are measured under the following conditions.
 - a. Use a V.T.V.M.
 - b. All voltages $\pm 10\%$ with respect to chassis ground.
 - c. No signals at input terminals.
 - d. AC input at 220 volts 50 Hz.
 4. This is a basic schematic diagram

IC & TRANSISTOR LEAD IDENTIFICATION

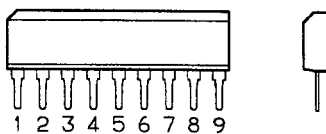
TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC3331 2SC3792 2SC536			2SB560 2SD438		
2SA1209 2SA1249 2SC2911 2SC3117			2SD1913		
2SA1301 2SC3280			2SA1346 2SA1503 2SC2839 2SD1012		
2SK246			2SC3066		
2SD1682			2SK583		
2SC4038					
TERMINAL NAME					
B → BASE C → COLLECTOR E → EMITTER			S → SOURCE G → GATE D → DRAIN		

IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

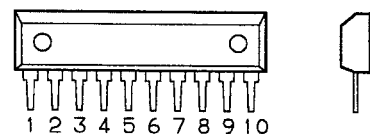
LA6458SS FRONT/SIDE VIEWS



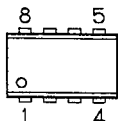
LA2500 FRONT/SIDE VIEWS



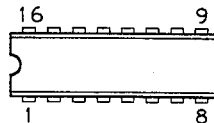
LB1641 FRONT/SIDE VIEWS



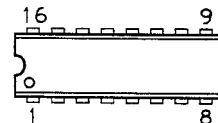
**UPC4570C TOP VIEW
LA6462D TOP VIEW**



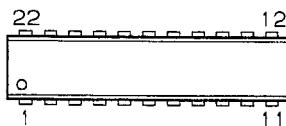
TC9214P TOP VIEW



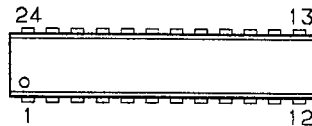
LM7001 TOP VIEW



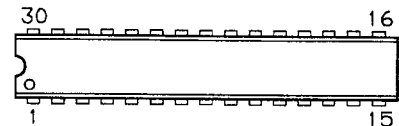
LA3401 TOP VIEW



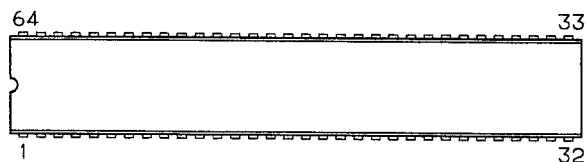
LA1266 TOP VIEW



LC7821 TOP VIEW



TMP47C870-4629 TOP VIEW



SERVICE MANUAL



FISHER

AM/FM STEREO RECEIVER WITH RCA-9050 WIRELESS REMOTE CONTROL

RS-9040

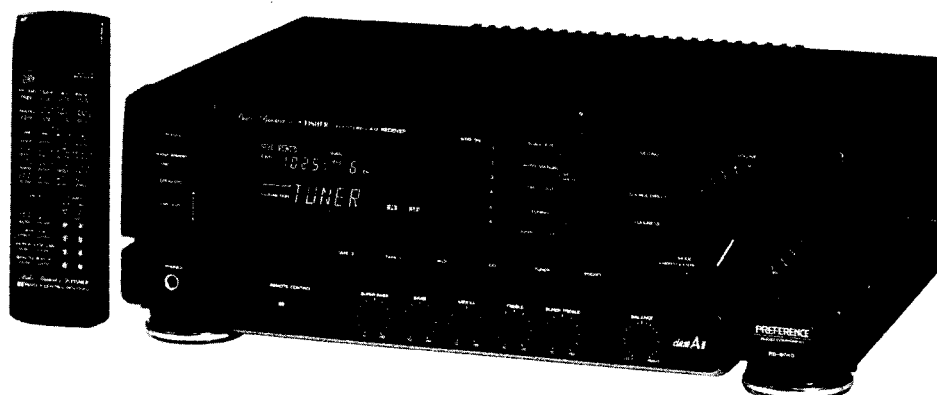
(EUROPE)

132 351 45

The original service manual of model RS-9040 reflects the Black version only. This supplement is intended to add the Titan Gray version to the original service manual of WM-570409.

Ref.No.	RS-9040 (Black)	RS-9040 (Titan Gray)	Description	Q'ty
	PACKAGE 620 204 0479	620 212 4957	Outer Carton	1
	ACCESSORIES 620 209 1570	620 212 5206	Label,Barcode	1
6	CABINET 620 204 0455	620 212 4810	Assy,Cabinet	1
7	620 198 6969	620 212 3943	Assy,Foot	4
12	620 198 0769	620 212 4858	Knob,Rotary,Volume	1
13	620 198 0776	620 212 4865	Knob,Rotary	6
14	620 198 6938	620 212 4872	Knob,Power	1
15	620 198 0721	620 212 4889	Button,REC	1
17	620 198 0745	620 212 4902	Button,Stand BY	1
18	620 198 0752	620 212 4919	Button,Push	2
19	620 199 3189	620 212 4926	Button,Push	1
20	620 198 6983	— — — —	Foot	2
33	620 045 4711	620 212 4940	Cover	1

Add this sheet Model RS-9040 Service Manual (WM-570409).



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REFERENCE No. WM-570679